

**MD6430A**  
**Network Data Analyzer**  
**Operation Manual**

**Remote Control**

Fifth Edition

To ensure that this equipment is used safely, important safety items are explained in the MD6430A Network Data Analyzer operation manual (Panel Operating Instructions). Read both the operation manual and this manual, and keep both with the equipment.

**ANRITSU CORPORATION**

Document No.: M-W1543AE-5.0

**MD6430A Network Data Analyzer  
Operation Manual  
Remote Control**

**12 March 1999 (First Edition)  
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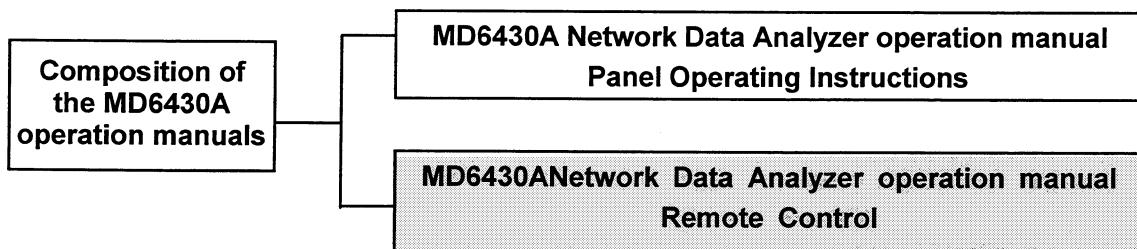
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## ABOUT THIS MANUAL

### Composition of the MD6430A operation manuals

The MD6430A Network Data Analyzer operation manuals are composed of the following two documents. Use them properly according to the usage purpose.



- **MD6430A Network Data Analyzer operation manual : Panel Operating Instructions**  
Describes the outline, preparation before use, panel description, specifications, performance test, and manual operation of the MD6430A.
- **MD6430A Network Data Analyzer operation manual : Remote Control**  
Describes the remote control and program examples used for the external interfaces. RS-232C (standard) and GPIB (Option 01) are available as the external interfaces.

# **Contents**

<b>ABOUT THIS MANUAL .....</b>	<b>1</b>
<b>SECTION 1 OVERVIEW .....</b>	<b>1-1</b>
1.1 Remote Control Function .....	1-2
1.2 Example of System Configuration.....	1-3
<b>SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE</b>	<b>2-1</b>
2.1 RS-232C Interface.....	2-2
2.1.1 Connecting RS-232C cable .....	2-2
2.1.2 RS-232C Setting.....	2-4
2.2 GPIB Interface (MD6430A Option 01).....	2-5
2.2.1 Connecting GPIB cable.....	2-5
2.2.2 GPIB Setting.....	2-7
2.2.3 GPIB interface functions .....	2-8
2.2.4 Bus command.....	2-9
2.2.5 Initializing Bus .....	2-9
2.2.6 Bus initialization .....	2-9
<b>SECTION 3 INITIAL SETTINGS.....</b>	<b>3-1</b>
3.1 Initializing Device .....	3-2
3.2 State of Device at Power On .....	3-3
<b>SECTION 4 OVERVIEW OF DEVICE MESSAGE.....</b>	<b>4-1</b>
4.1 Device Message List .....	4-2
4.2 Input Format.....	4-3
4.3 Output Format.....	4-8
4.4 Common Commands .....	4-10

<b>SECTION 5    REMOTE COMMAND LAYER.....</b>	<b>5-1</b>
5.1 List of Remote Commands .....	5-2
5.1.1 SYSTem sub-system .....	5-3
5.1.2 SOURce sub-system.....	5-7
5.1.3 SENSe sub-system .....	5-10
5.1.4 DISPlay sub-system.....	5-13
5.1.5 CALCulate sub-system.....	5-16
5.1.6 TEST sub-system.....	5-17
5.1.7 STATus sub-system .....	5-17
<b>SECTION 6    REMOTE COMMANDS .....</b>	<b>6-1</b>
6.1 Introduction to SCPI .....	6-2
6.1.1 How to Read Details on Commands.....	6-3
6.1.2 Describing command .....	6-4
6.2 SYSTem Sub-system .....	6-6
6.3 SOURce Sub-system .....	6-82
6.4 SENSe Sub-system.....	6-134
6.5 DISPlay Sub-system .....	6-180
6.6 CALCulate Sub-System.....	6-225
6.7 TEST Sub-System .....	6-255
6.8 STATus Sub-System.....	6-259
<b>SECTION 7    STATUS REPORT.....</b>	<b>7-1</b>
7.1 MD6430A Status Register Configuration .....	7-2
7.2 IEEE488.2 Standard Status Register.....	7-4
7.3 SCPI-Standard Status Register .....	7-6
7.4 MD6430A-Specific Status Register.....	7-8
<b>SECTION 8    ERROR MESSAGES.....</b>	<b>8-1</b>
8.1 Command Error.....	8-2
8.2 Execution Error .....	8-4
8.3 Device Specific Error .....	8-5
8.4 Query Error .....	8-6

<b>SECTION 9 SAMPLE PROGRAM.....</b>	<b>9-1</b>
9.1 Development Environment and Overview .....	9-2
9.2 Operation Details of Sample Program .....	9-4
9.2.1 Flowchart.....	9-5
9.3 Setup of Sample Program and Sample Program Source .....	9-7
9.4 Execution of Sample Program .....	9-8
9.5 Screen Descriptions.....	9-11
9.6 Program Configuration .....	9-15
9.7 Set Conditions after Sample Program Executed .....	9-20
9.8 Source Program.....	9-22
<b>APPENDIX .....</b>	<b>App. i</b>
Appendix A Command list (SCPI) .....	A-1
A.1 MD6430A screen.....	A-1
A.2 Setup main screen.....	A-2
A.3 Interface main screen .....	A-8
A.4 Measure main screen.....	A-11
A.5 Analyze main screen .....	A-20
A.6 Front panel/the others .....	A-23

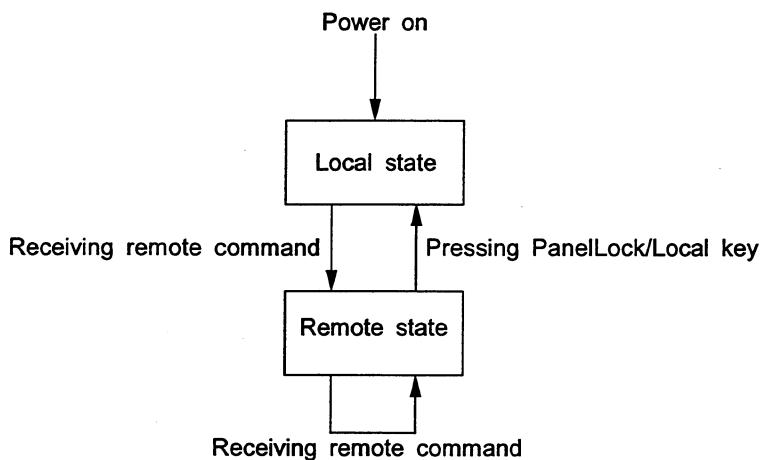
## **SECTION 1 OVERVIEW**

## SECTION 1 OVERVIEW

### 1.1 Remote Control Function

The MD6430A Network Data Analyzer can perform remote control and automatic measurement using an external controller. It has RS-232C (standard) and GPIB (Option 01) as the remote interfaces, and adopts SCPI (Standard Commands for Programmable Instructions) as the remote control command system.

The following shows the state transition between local and remote states:



**Fig. 1.1-1 State transition between local and remote states**

- In the remote state : The touch panel, the Quick key, the Print Now key, and the Cursor keys are not available.

## 1.2 Example of System Configuration

The following shows an example of system setup using the remote control function.

### ■ Host computer control

The auto measuring system can be configured in connection with the host computer.

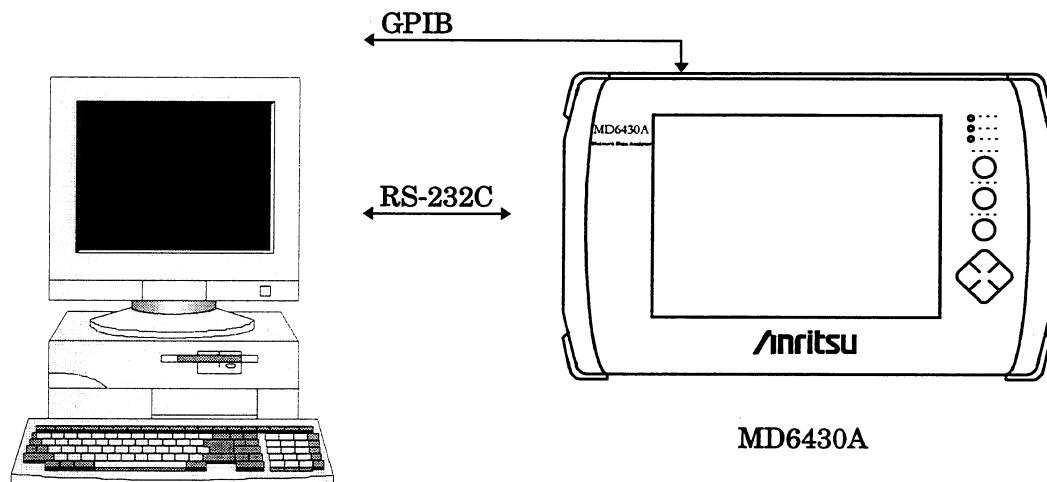


Fig. 1.2-1 Host Computer Control

## **SECTION 1 OVERVIEW**

## **SECTION 2**

### **SETUP AND CONFIGURATION OF REMOTE INTERFACE**

## SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE

### 2.1 RS-232C Interface

#### 2.1.1 Connecting RS-232C cable

If your controller has a 9-pin D-sub connector (IBM-PC/AT etc.), connect it to the MD6430A as shown in Fig. 2.1-2, or if it has a 25-pin D-sub connector, connect it to the MD6430A as shown in Fig. 2.1-3.

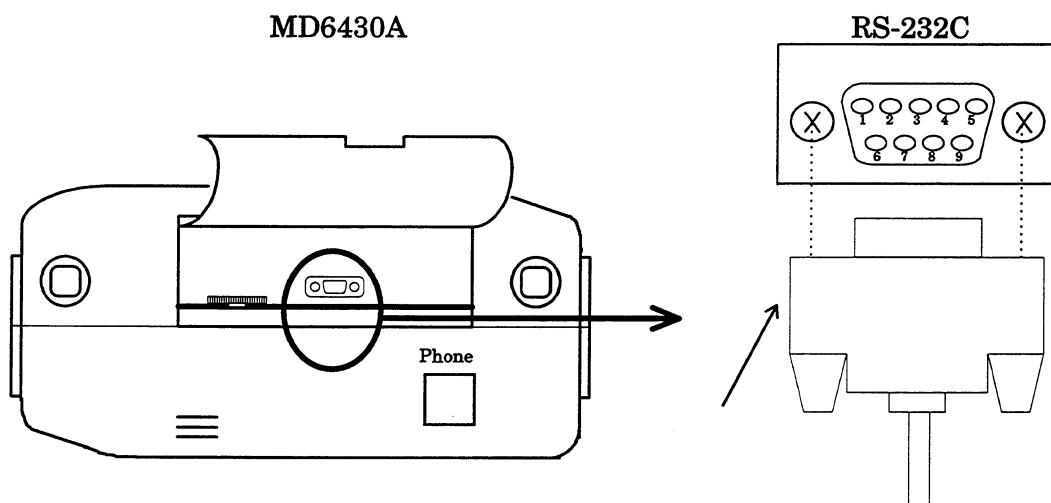


Fig. 2.1-1 Connecting RS-232C Cable

Table 2.1-1 RS-232C pin layout

No	I/O	Name
1	I	DCD(CD) Carrier Detect
2	I	RXD(RD) Receive Data
3	O	TXD(SD) Send Data
4	O	DTR(ER) Equipment Ready
5	-	SG Signal Ground
6	I	DSR(SR) Data Set Ready
7	O	RTS(RS) Request to Send
8	I	CTS(CS) Clear to Send
9	-	-

## 2.1 RS-232C Interface

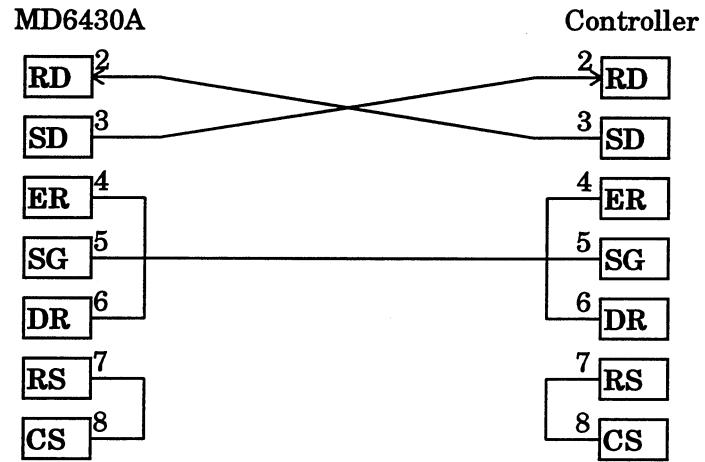


Fig. 2.1-2 Connection to 9-pin D-sub Connector

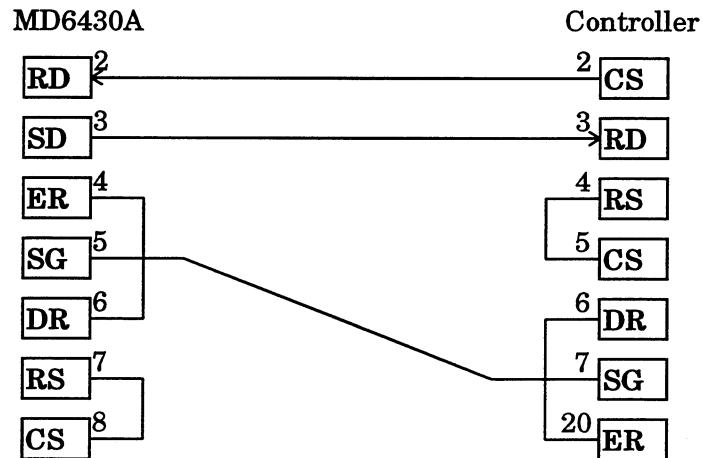


Fig. 2.1-3 Connection to 25-pin D-sub Connector

## SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE

### 2.1.2 RS-232C Setting

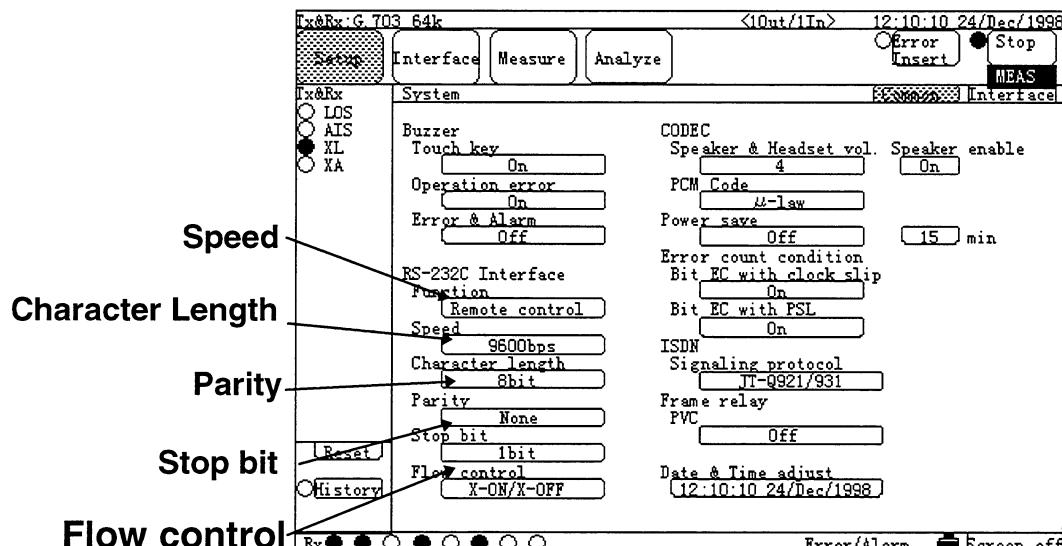
To use RS-232C as the remote interface, set the following settings of the MD6430A by using its screen display while keeping it in the local state. The settings can be always changed as long as the MD6430A is in the local state.

**Table 2.1-2 RS-232C settings**

Setting contents	Setting item	Setting range	Initial value
Setting baud rate	Speed	300, 600, 1200, 2400, 4800, 9600, 19200	9600
Setting character length	Character length	8bit, 7bit	8bit
Setting parity	Parity	None, Even, Odd	None
Setting stop bit length	Stop Bit	2bit, 1bit	1bit
Setting flow control	Flow Control	Ready/Busy, X-ON/X-OFF	X-ON/X-OFF

To set the aboves, use the Setup:System panel. The following explains the setting procedure:

- (1) Open the Setup:System panel.



**Fig. 2.1-4 Setup:System panel**

- (2) Set up each item according to your environment.

## 2.2 GPIB Interface (MD6430A Option 01)

### 2.2.1 Connecting GPIB cable

The connector for the GPIB cable connection is located on the upper panel. Turn off the power before connecting the GPIB cable. To connect the MD6430A to an external controller, always use the GPIB cable (J1026A) exclusively for the MD6430A Option 01.

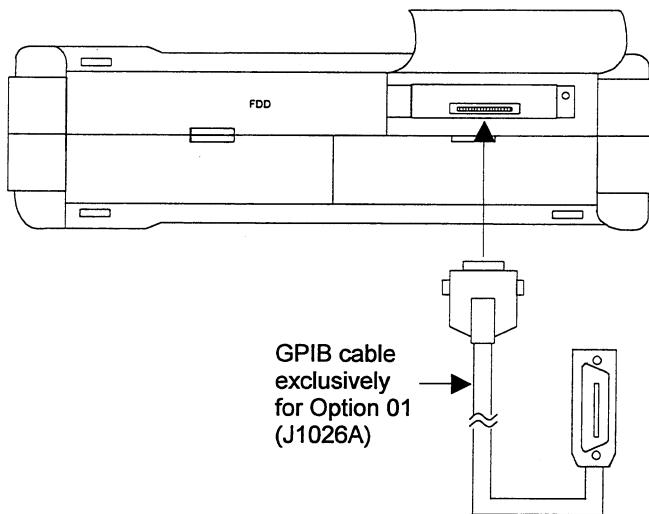


Fig. 2.2-1 Connecting GPIB Cable

Table 2.2-1 GPIB Connector Pin Layout (IEEE488 Standard)

No	Name	No	Name	No	Name
1	DIO1 Data Input Output1	9	IFC Interface Clear	17	REN Remote Enable
2	DIO2 Data Input Output2	10	SRQ Service Request	18	GND
3	DIO3 Data Input Output3	11	ATN Attention	19	GND
4	DIO4 Data Input Output4	12	GND	20	GND
5	EOI END or Identify	13	DIO5 Data Input Output5	21	GND
6	DAV Data Varied	14	DIO6 Data Input Output6	22	GND
7	NRFD Not Ready For Data	15	DIO7 Data Input Output7	23	GND
8	NDAC Not Data Accepted	16	DIO8 Data Input Output8	24	GND

All signal lines allow input/output.

## SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE

GPIB connector side on MD6430A		IEEE488 connector side
1	DIO1	1
2	DIO2	2
3	DIO3	3
4	DIO4	4
5	EOI	5
6	DAV	6
7	NRFD	7
8	NDAC	8
9	IFC	9
10	SRQ	10
11	ATN	11
12	GND	12
13	DIO5	13
14	DIO6	14
15	DIO7	15
16	DIO8	16
17	REN	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25		
26		

Fig. 2.2-2 Connection Diagram of GPIB Cable Exclusively for Option 01 (J1026A)

## 2.2 GPIB Interface (MD6430A Option 01)

### 2.2.2 GPIB Setting

To use GPIB as a remote interface, set the MD6430A on the screen display while keeping it in the local state. The settings can be always changed as long as the MD6430A is in the local state.

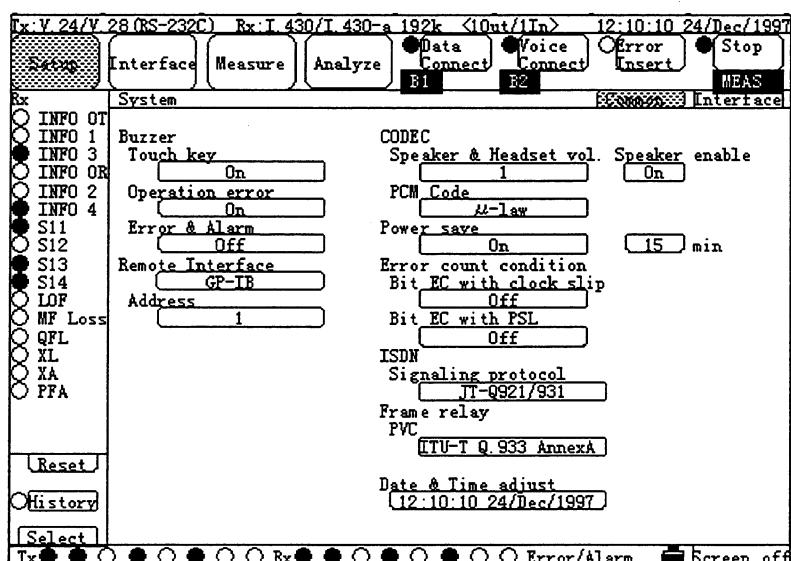
**Table 2.2-2 GPIB settings**

Setting contents	Setting item	Setting range	Initial value
Device number	Address	0 to 30	1

The above can be set on the Setup:System panel screen. The following explains the setting procedure.

- (1) Open the Setup:System panel screen.

Set the Remote Interface to GPIB.



**Fig. 2.2-3 Common of Setup:System panel**

- (2) Set up each item according to your environment.

## SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE

### 2.2.3 GPIB interface functions

The GPIB interface of the MD6430A provides functions as a device, not as a controller. Therefore, the interface functions conformed to the IEEE488.2 standard are as follows:

Code	Interface function	IEEE488.2 standard
SH1	All the functions of source handshake provided.	All the functions are standard.
AH1	All the functions of acceptor handshake provided.	All the functions are standard.
T6	Basic talker function provided. Serial poll function provided. Talk-only-mode function provided. Talker cancellation function by MLA provided.	Device should have either subset of T5, T6, TE5, or TE6.
L4	Basic listener function provided. Listen-only-mode function not provided. Listener cancellation function by MTA provided.	Device should have either subset of L3, L4, LE3, or LE4.
SR1	All the functions of service request provided.	All the functions are standard.
RL1	All the functions of remote/local provided.	RL0 (without function) or RL1 (with all functions)
PP0	Parallel poll function not provided.	PP0 (without function) or PP1 (with all functions)
DC1	All the functions of device clear provided.	All the functions are standard.
DT1	All the functions of device trigger provided.	DT0 (without function) or DT1 (with all functions)
C0	System controller function not provided.	C0 (without function), or (C4 and C5), or either of C7, C9, or C11.

## 2.2 GPIB Interface (MD6430A Option 01)

### 2.2.4 Bus command

"Bus command" means internal interface communication transmitted during the bus is in command mode (ATN line is at "L" level).

Bus commands are listed in the following table:

Bus command	Operation
DCL (Device clear)	Initializes the message exchange of all the devices connected to the GPIB bus.
SDC (Selected Device Clear)	Initializes the message exchange of the addressed device. The operation is the same as that of DCL.
GET (Group Execute Trigger)	Performs the same operation as that when the Start/Stop key is pressed.
IFC (Interface Clear)	Initializes the interface.

### 2.2.5 Initializing Bus

IFC      Bus initialization by the IFC statement.

Outline      Initializes all the interface functions connected to the bus by the IFC message from the controller.

Function      Sets IFC line to active state for approximately 100 µs and initializes the interface functions of all devices connected to the GPIB bus line.  
IFC can be sent by the system controller only.

### 2.2.6 Bus initialization

DCL, SDC      Initialization of message exchange by DCL and SDC bus commands.

Outline      Initializes the message exchange and invalidates the reporting function of operation completion to the controller, for all the devices on the GPIB by GPIB bus command DCL, or for the devices specified by bus command SDC.

Function      Initializes the message exchange for all the devices on the GPIB or the specified devices.  
Initialize the message exchange in case the portion relating message exchange in the device is in improper state to be controlled by the controller, though the setting state of the panel need not be changed. By initializing the message exchange, other new commands can be sent from the controller.

DCL: Initializes the message exchange for all the devices on the GPIB.

SDC: Initializes the message exchange for the specified devices.

## **SECTION 2 SETUP AND CONFIGURATION OF REMOTE INTERFACE**

## **SECTION 3 INITIAL SETTINGS**

## SECTION 3 INITIAL SETTINGS

### 3.1 Initializing Device

---

The Instrument uses the following two commands to initialize a device. These commands initialize a device at the third level (initialization of device) stipulated in IEEE488.2.

- \*RST common command

- **Initializing a device using the \*RST common command**

\*RST is one of the IEEE488.2 common commands.

The \*RST command enters the device into the following state:

The MD6430A is returned to the same state as that when the power is turned off and then on again.

---

**Note:** The \*RST command does not affect the followings:

1. Output queue
  2. Service request enable register
  3. Standard event status enable register
  4. Power-on-status-clear flag setting.
  5. Configuration data that affects the device specifications.
-

## 3.2 State of Device at Power On

---

This paragraph explains the state of the MD6430A at power on.

When the power is turned on, the MD6430A is entered into the following state:

- (1) It is set to the same state as that when the power is turned off last time.
- (2) The input buffer and output queue are cleared.
- (3) The parser, execution controller, and response formatter are reset.

### **SECTION 3 INITIAL SETTINGS**

## **SECTION 4 OVERVIEW OF DEVICE MESSAGE**

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

### 4.1 Device Message List

A device message is a data message that is transmitted/received between the controller and the device via the system interface. Program message and response message are available.

A program message is an ASCII data message that is transferred from the controller to the device. A response message is an ASCII data message that is transferred from the device to the controller.

Both messages have the following types:

Table 4.1-1 Device Message List

Program message	Response message
<ul style="list-style-type: none"><li>• Program command</li><li>• Device-specific command (see Chapter 6)</li><li>• IEEE488.2 common command (see 4.4)</li><li>• Program query (see Chapter 6)</li></ul>	<ul style="list-style-type: none"><li>● Status message (see Chapter 7)</li><li>● Response message (see Chapter 6)</li></ul>

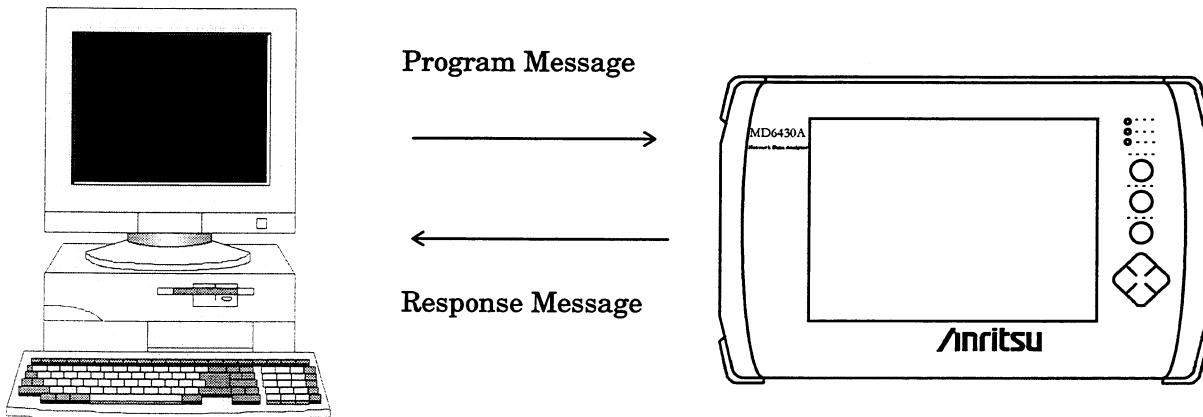


Fig. 4.1-1 Device Message List

The above-mentioned messages can be retried through the device I/O buffer. The I/O buffer is briefly described below:

#### ■ Input buffer

A FIFO (first-in first-out) type memory area in which DAB (program message and query message) can be stored temporarily before syntax analysis. The Instrument has a 510-kbytes input buffer.

#### ■ Output buffer

The MD6430A does not have any output buffers. It outputs the response message immediately after receiving a query command.

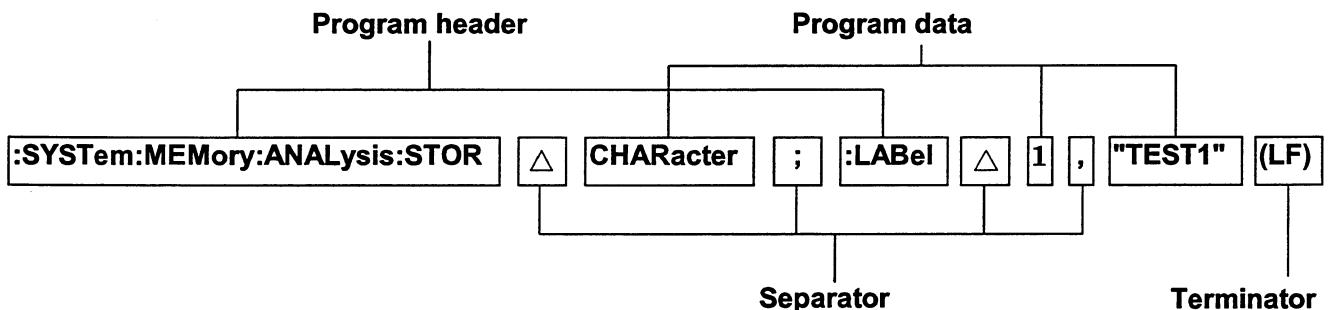
## 4.2 Input Format

The Instrument commands conform to both SCPI and IEEE488.2. IEEE488.2 stipulates the program message as a sequence of functional elements.

A functional element is the minimum-level unit that can represent the function. These elements are roughly classified into four groups: separator, terminator, program header and program data.

Example: When sending a program message

"**:SYSTem:MEMory:ANALysis:STOR**e CHARacter ; :LABel 1,"TEST1""(LF)  
from the controller to the device



This section describes the format of the instrument commands by functional element group. (△ in the text description stands for a space.)

### ■ Separator

A separator contains the following three functional elements.

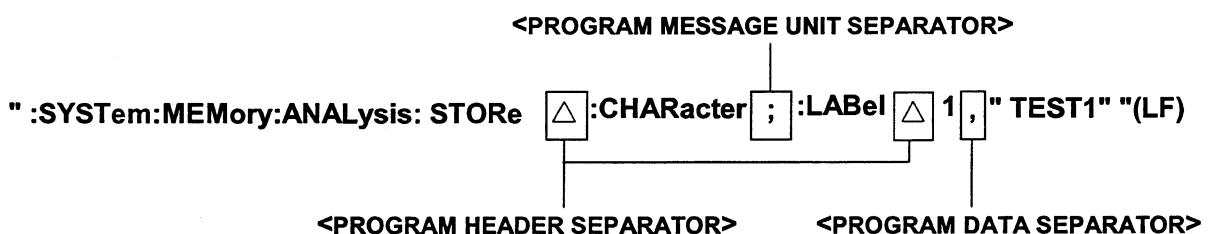


Table 4.2-1 Separator type

Functional element	Description
<PROGRAM MESSAGE UNIT SEPARATOR>	Separates multiple <PROGRAM MESSAGE UNIT> elements. Represented with zero or more spaces plus semicolon.
<PROGRAM DATA SEPARATOR>	Separates multiple <PROGRAM DATA> elements. Represented with zero or more spaces plus comma plus zero or more spaces.
<PROGRAM HEADER SEPARATOR>	Separates the <PROGRAM HEADER> from <PROGRAM DATA> elements. Represented with "one" or more spaces.

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

### ■ Terminator

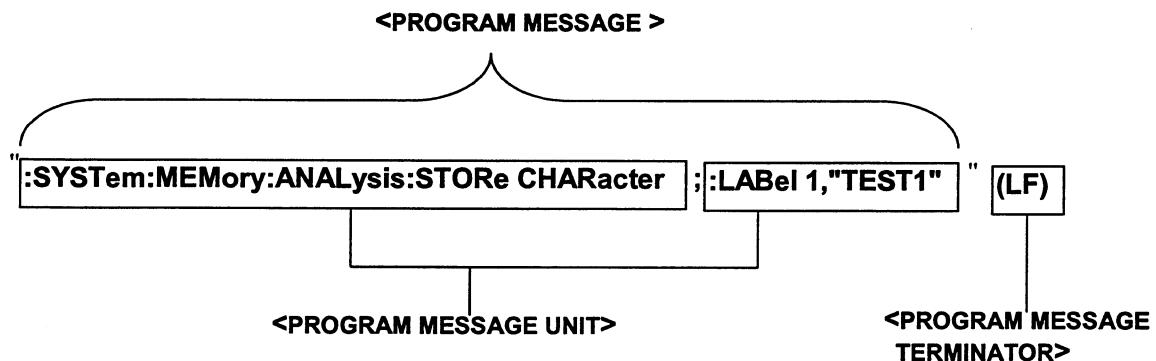
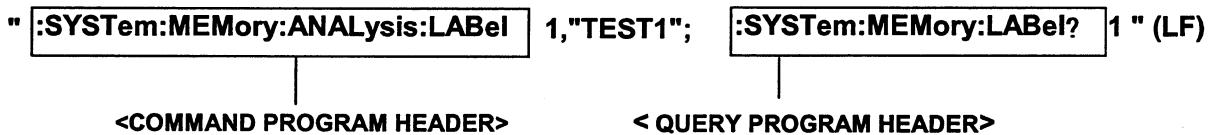


Table 4.2-2 Terminator type

Functional element	Description
<PROGRAM MESSAGE TERMINATOR>	Appended to the end of <PROGRAM MESSAGE> to terminate one or more sequences of <PROGRAM MESSAGE UNIT>. Represented with zero or more spaces plus (CR+LF or LF).

■ **Program header**

A program header contains the following two functional elements:



**Table 4.2-3 Program header type**

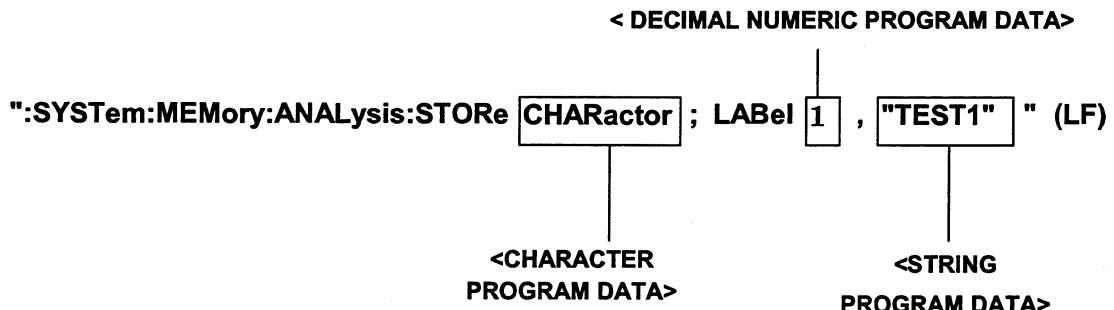
Functional element	Description
<b>&lt;COMMAND PROGRAM HEADER&gt;</b>	<p>This is a command which allows the controller to control the device. As &lt;COMMAND PROGRAM HEADER&gt;, the Instrument uses &lt;common command program header&gt; and &lt;compound program header&gt; for the encoding syntax.</p> <p>&lt;common command program header&gt; The IEEE488.2 common commands use this syntax. Example: *RST</p> <p>&lt;compound command program header&gt; The device-specific command (SCPI) uses this syntax. Example: <u>:SYSTem:MEMory:ANALysis:LABel 1,"TEST1"</u></p>
<b>&lt;QUERY PROGRAM HEADER&gt;</b>	<p>This is a query command to be sent to the device in advance because the controller receives a response message from the device. At the end of the header, query indicator ? is appended. As &lt;QUERY PROGRAM HEADER&gt;, the Instrument uses &lt;common query program header&gt; and &lt;compound query program header&gt; for the encoding syntax.</p> <p>&lt;common query program header&gt; The IEEE488.2 common query commands use this syntax. Example: *IDN?</p> <p>&lt;compound query program header&gt; The device-specific command (SCPI) uses this syntax. Example: <u>:SYSTem:MEMory:ANALysis:LABel? 1</u></p>

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

### ■ Program data

A program data of the Instrument contains four functional elements listed below.

In the command detail description, the program data type stipulated in SCPI corresponding to the device-specific parameter type is given.



The type of program data used on the MD6430A is as follows.

**Table 4.2-4 Program data type**

Functional element	Description
<DECIMAL NUMERIC PROGRAM DATA>	Denotes a decimal value. <CHARACTER PROGRAM DATA> of MINimum or MAXimum are also included as special numeric types. Example : integer                005,        +5,        5 fixed decimal point    12.345,   .05,   +0.05,   12.
<BOOLEAN PROGRAM DATA> (Defined by SCPI)	Denotes the logical value. OFF or 0 corresponds to false while, ON or 1,true. Either 0 or 1 and OFF or ON can be used for setting, however, 0 or 1 is used for response against query.
<STRING PROGRAM DATA>	Denotes a character string, which contains a string of ASCII character surrounded by single quotation or double quotation marks. Either the long form or short from may be used.
<CHARACTER PROGRAM DATA>	Denotes character data, which is expressed by a short character string according to the setting content. Either long form or short form may be used.



## SECTION 4 OVERVIEW OF DEVICE MESSAGE

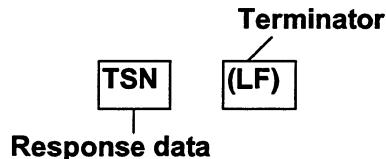
### 4.3 Output Format

The instrument commands conform to both SCPI and IEEE488.2. IEEE488.2 stipulates the response message as a sequence of functional elements.

Functional elements are roughly classified into four groups: separator, terminator, response header and response data.

Example : For the response TSN when the following command which queries the setting state of the time slot for measurement is sent:

: SENSe:TELecom:TSLot?



Because the instrument response messages do not contain the separator and response header, this section describes these messages of two groups.

■ Terminator

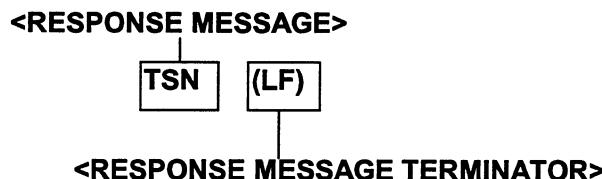
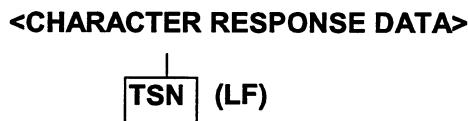


Table 4.3-1 Terminator type

Functional element	Description
<RESPONSE MESSAGE TERMINATOR>	Appended to the end of <RESPONSE MESSAGE> to complete message transfer. Using the common command TRM, either LF or CR+LF is selected.

■ Response data

A response data of the instrument contains 3 functional elements as below. In the command detail description, the response data type stipulated in SCPI corresponding to the device-specific response type is given.



The form of response corresponding to query command is shown below.

Table 4.3-2 Response type

Functional element	Description
<STRING RESPONSE DATA>	String surrounded by "" is responded. Short form string is responded when both long and short forms exist for contents of string corresponding to the program command. As for response formats, see Table 6.6-2.
<CHARACTER RESPONSE DATA>	Short form characters are responded.
<NR1 NUMERIC RESPONSE DATA>	A real decimal number without exponent part is returned.

- 
- When the variable bit-length type of <STRING RESPONSE DATA> is used on the MD6430A, the string length is changed depending on the effective bit length. If the queried item is not effective, '-----' with the maximum length of the item is returned.
-

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

### 4.4 Common Commands

This section describes the IEEE488.2 common commands supported by the MD6430A.

All common commands supported by the MD6430A are sequential commands.

The IEEE488.2 common commands supported by the MD6430A are listed in the following table by functional group.

**Table 4.4-1 List of IEEE488.2 common commands**

Group	Function	Plain language
System data	Provides the information specific to devices connected system, for example, the device manufacturer, model and serial number.	*IDN?
Internal operation	Controls device inside: (1) Resets the device at level 3. (2) Performs the self-test for the device inside and detects errors (3) Save/recall measurement conditions.	*RST *TST? *SAV *RCL
Synchronization	Synchronizes the controller by means of (1) waiting for service request or (2) waiting for response from the device output queue. All the instrument commands are sequential commands.	*OPC *OPC? *WAI
Status & Event	A status byte is composed of status summary messages. Individual summary bits in the message are supplied from the standard event register, output queue and expanded event register or expanded queue. To set, clear, enable or disable the data in the register or queue or to know the register setting condition through query, five commands and four queries are prepared.	*CLS *ESE *ESE? *ESR? *SRE *SRE? *STB? *PSC *PSC?
Device trigger	Operates in the same way as the IEEE488.1 GET (Group Execute Trigger bus command).	*TRG
Option check	Inquires the option function installed in the device.	*OPT?

#### 4.4 Common Commands

**Table 4.4-2 List of IEEE488.2 common commands supported by MD6430A**

No.	Plain language	Command full supel name
1	*IDN?	Identification Query
2	*RST	Reset Command
3	*TST?	Self Test Query
4	*OPC	Operation Complete Command
5	*OPC?	Operation Complete Query
6	*WAI	Wait Continue Command
7	*CLS	Clear Status Command
8	*ESE	Standard Event Status Enable Command
9	*ESE?	Standard Event Status Enable Query
10	*ESR?	Standard Event Status Register Query
11	*SRE	Service Request Enable Command
12	*SRE?	Service Request Enable Query
13	*STB?	Read Status Byte Query
14	*TRG	Trigger Command
15	*PSC	Power On Status Clear Command
16	*PSC?	Power On Status Clear Query
17	*SAV	Save Command
18	*RCL	Recall Command
19	*OPT?	Option Identification Query
20	LLO	Local Lock Out
21	GTL	Go To Local
22	TRM	Terminator

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

1	Identification Query
Command name	*IDN?
Function	Reports the manufacturer name, model name., or other information of the product.
Response	<ARBITRARY ASCII RESPONSE DATA> <manufacturer name of product>,<model name>,<serial number>, <revision number of firmware>
Example use	When the <revision number of firmware> is 1.00, >*IDN? <ANRITSU,MD6430A,0,1.00 • For MD6430A: ANRITSU, MD6430A, 0, **** • **** = 0.00 to 99.99

2	Reset Command
Command name	*RST
Function	Returns the MD6430A to the same state as that when it is power off and then on again. The measured results are cleared, but the previous settings are kept. To restore the factory settings, use the SCPI command :SYSTem:MEMory:RECall 0.
Parameter	None
Example use	>*RST

3	Self Test Query
Command name	*TST?
Function	Returns the results of selftest. The MD6430A is returned "0".
Response	<NR1 NUMERIC RESPONSE DATA> 0:No error 1:Error occurred
Example use	>*TST? <1

#### 4.4 Common Commands

4	Operation Complete Command
Command name	*OPC
Function	Sets bit 0 (operation completion bit) of the standard event status register when the previous command has been executed.
Parameter	None
Example use	>*RCL 1;*OPC

5	Operation Complete Query
Command name	*OPC?
Function	Returns 1 when the previous command has been executed. It is used to synchronize the sequential processing.
Response	<NR1 NUMERIC RESPONSE DATA> 1
Example use	>*RCL 1;*OPC? <1

6	Wait Continue Command
Command name	*WAI
Function	Delays the execution of the next command until the previous command has been completed. (It is used to run the overlapping commands as sequential commands.) This function is valid only for the previous command.
Parameter	None
Example use	>*WAI

7	Clear Status Command
Command name	*CLS
Function	Clears all status structures except the output queue and its MAV summary message as well as the enable registers and Transition filter. When issuing *CLS immediately after <PROGRAM MESSAGE TERMINATOR> and before the <Query MESSAGE UNIT> element, it clears both the output queue and the MAV bit.
Parameter	None
Example use	>*CLS

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

8	Standard Event Status Enable Command
Command name	*ESE
Function	<p>Sums up the values of the bits to be enabled in the standard event enable register, and regards it as a parameter. The enabled bit becomes 1, and the disabled bit becomes 0.</p> <p>For information about the register configuration of the MD6430A, refer to the paragraph "7.1 MD6430A Status Register Configuration."</p> <p>This command sets and clears the standard event status enable register.</p>
Parameter	<DECIMAL NUMERIC PROGRAM DATA> Range: Integer, 0 to 255
Example use	To set bits 2(4) and 4(16) of the standard event status enable register (4+16=20): >*ESE 20

9	Standard Event Status Enable Query
Command name	*ESE?
Function	Queries the current value of the standard event status enable register.
Response	<NR1 NUMERIC RESPONSE DATA> Range: Integer, 0 to 255
Example use	>*ESE? <20

10	Standard Event Status Register Query
Command name	*ESR?
Function	<p>Returns the standard event status register as well as the sum of the values of the enable bits of the register, as its response.</p> <p>For information about the register configuration of the MD6430A, refer to paragraph 7.1.</p> <p>Queries the current value of the standard event status register.</p>
Response	<NR1 NUMERIC RESPONSE DATA>
Example use	When a command error occurred: >*ESR? <32

#### 4.4 Common Commands

11	Service Request Enable Command
Command name	*SRE
Function	<p>Sums up the values of the bits to be enabled in the standard event enable register, and regards it as a parameter. The enabled bit becomes 1, and the disabled bit becomes 0.</p> <p>For information about the register configuration of the MD6430A, refer to the paragraph 7.1.</p> <p>This command sets and clears the service request enable register.</p>
Parameter	<DECIMAL NUMERIC PROGRAM DATA Range: Integer, 0 to 255
Example use	To set bits 2(4) and 4(16) of the service request enable register (4+16=20): >*SRE 20

12	Standard Event Status Register Query
Command name	*SRE?
Function	<p>Returns the service request enable register as well as the sum of the values of the enable bits of the register, as its response.</p> <p>For information about the register configuration of the MD6430A, refer to paragraph 7.1.</p> <p>Queries the current value of the service request enable register.</p>
Response	<NR1 NUMERIC RESPONSE DATA>
Example use	>*SRE? <32

13	Read Status Byte Query
Command name	*STB?
Function	<p>Returns the sum of the values of the bits of the status byte register, as its response.</p> <p>For information about the register configuration of the MD6430A, refer to paragraph 7.1.</p> <p>Queries the current value of the status byte register, including the MSS(Master Summary Status) bit.</p>
Response	<NR1 NUMERIC RESPONSE DATA>
Example use	When the error/event queue are not empty: >*STB? <4

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

14	<b>Trigger Command</b>
Command name	*TRG
Function	<p>Operates the same way as the GET command (Group Execute Trigger bus command) of IEEE488.1.</p> <p>When the MD6430A receives the *TRG command, it starts or restarts measurement, depending on the screen, as follows:</p> <ul style="list-style-type: none"> <li>It starts or restarts measurement in the error/alarm measurement screen, delay time measurement screen, frequency measurement and digital level screen.</li> <li>It starts or restarts trace in the word pattern trace screen.</li> <li>It starts or restarts selftest in the selftest screen.</li> <li>In these cases, it does not move screens.</li> </ul>
Parameter	None
Example use	>*TRG

15	<b>Power On Status Clear Command</b>
Command name	*PSC <numeric>
Function	Determines whether to clear each of the standard event status enable registers at power on or not. When <numeric> is 1, it clears each enable register. When it is 0, it does not clear any enable registers.
Parameter	<DECIMAL NUMERIC PROGRAM DATA> 0 : Sets the Power ON Status Clear flag to false. 1 : Sets the Power ON Status Clear flag to true.
Example use	To set the Power ON Status Clear flag to false: >*PSC 0

16	<b>Power On Status Clear Query</b>
Command name	*PSC?
Function	Queries whether the Power ON Status Clear flag is true or false.
Response	<numeric> = <NR1 NUMERIC RESPONSE DATA> 0:The Power ON Status Clear flag is false. 1:The Power ON Status Clear flag is true.
Example use	>*PSC? <0

#### 4.4 Common Commands

17	<b>Save Command</b>
Command name	*SAV <numeric>
Function	Writes the current setting of the device into a memory section whose number is specified in the parameter. The range of states to be saved is the same as that of states that are affected by the *RST command. Another SCPI command that has the same function as this command is :SYSTem:MEMory:STORe.
Parameter	<numeric> = <DECIMAL NUMERIC PROGRAM DATA> 1 to 10 (step: 1)
Example use	>*SAV 1

18	<b>Recall Command</b>
Command name	*RCL <numeric>
Function	Recalls the contents of the memory of the specified number to reset the device to the previous state. Another SCPI command that has the same function as this command is :SYSTem:MEMory:RECall.
Parameter	<numeric> = <DECIMAL NUMERIC PROGRAM DATA> 0 to 10 (step: 1)
Example use	>*RCL 1

## SECTION 4 OVERVIEW OF DEVICE MESSAGE

19	<b>Option Identification Query</b>
Command name	*OPT?
Function	<p>Reports a list of options being installed.          In the order of the main frame and interfaces, it reports the list in the format of the model name of a unit followed by each the option number that is separated by a comma, as described in the response column below.</p>
Response	<p>&lt;CHARACTER ASCII RESPONSE DATA&gt;</p> <p>&lt;main frame option&gt;[,&lt;main frame option&gt;]...,&lt;model name of interface&gt;,&lt;interface option&gt;[,&lt;interface option&gt;]...</p> <p>Character indicating main frame option,          No option: 0</p> <p>Model name of interface unit          All interfaces are installed.: MU643000A          For Japan: MU643000B          For Europe: MU643000C</p> <p>Characters indicating interface options,          JT-Q921/Q931 ISDN Signalling: OPT01          ETSI ISDN Signalling: OPT02          No option: 0</p>
	<p>Assuming that interface (for Japan and Europe) and JT-Q921/Q931 ISDN Signalling ( Japan call control software ) are installed without main frame options:</p> <p>&gt;*OPT?</p> <p>&lt;0,MU643000A,OPT01</p>

20	<b>Local Lock Out</b>
Command name	LLO
Function	Disables the device from accepting process in local state.
Example use	>LLO

21	<b>Go To Local</b>
Command name	GTL
Function	Returns the device to local operation.
Example use	>GTL

#### 4.4 Common Commands

22	Terminator
Command name	TRM <DECIMAL NUMERIC PROGRAM DATA>
Function	Specifies a response terminator. The default is "LF." At power on, the default is valid.
Parameter	<DECIMAL NUMERIC PROGRAM DATA> 0 :LF 1 :CR+LF
Example use	To specify "CR+LF" for the response terminator: >TRM 1

## **SECTION 4 OVERVIEW OF DEVICE MESSAGE**

## **SECTION 5 REMOTE COMMAND LAYER**

## SECTION 5 REMOTE COMMAND LAYER

### 5.1 List of Remote Commands

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The Instrument's device-specific commands conform to SCPI.

SCPI configures commands by roughly classifying the device functions into several subsystems. Under each subsystem, the commands for detail functions are created to form a command tree structure.

The following pages list the command trees of the MD6430A. Note that all the device specific commands are sequential commands.

\*1)..... Indicates the command related to the call controll option (opt-01 and opt-02).

If this option is not installed, no response data occurs and Hardware missing (-241) is returned.

\*2)..... Indicates the command related to interface unit.

Some interface units do not accept this command.

If the unavailable parameter is input, Hardware missing (-241) is returned.

\*3)..... Indicates the command related to interface unit.

Some interface units, do not accept this command.

If the unavailable parameter is input, Hardware missing (-241) is returned.

\*4)..... Indicates the command related to interface unit.

The range of the value to be set depends on the interface unit used.

\*5)..... Indicates the command related to CAS/FAS option (Option 22).

If the CAS/FAS option is not installed, Hardware missing (-241) is returned.

If the CAS/FAS option is not installed, no response data occurs for a query command and Hardware missing (-241) is returned.

### 5.1.1 SYSTem sub-system

The SYSTem sub-system controls memory, buzzer, printer, floppy disk, and so on.

:SYSTem	:IOUTput	[:TYPE]		<type>	
		[:TYPE]?			
	:PRINT	:POUT		<boolean>	
		:POUT?			
		:IDATA	[:TYPE]	<type>	
			[:TYPE]?		
			:PERiod	<numeric>,<suffix>	
			:PERiod?		
		:MCondition		<boolean>	
		:MCondition?			
		:ERRor	:SET	<boolean>	
			:SET?		
			:UNIT	<unit>	
			:UNIT?		
			:THreshold	:EC <ecount>	
				:EC?	
				:ER <erate>	
				:ER?	
		:SQuelch		<boolean>	
		:SQuelch?			
		:ALARm	:SET	<boolean>	
			:SET?		
		:LDATA	:SET	<boolean>	
			:SET?		
		:ILDCondition	:ERRor	<boolean>	
			:ERRor?		
			:ALARm	<boolean>	
			:ALARm?		
			:PERFormanc e	<boolean>	
			:PERFormanc e?		
			:HDLC	<boolean>	
			:HDLC?		
		:EALarm	:CHARacter	:PRINT <print>	
				:PRINT?	
		:WTRace	:PDATA	:PRINT <print>	
				:PRINT?	
		:ANALyze	:EALogging	:PRINT <print>	
				:PRINT?	
			:EAHistogram	:PRINT <print>	
				:PRINT?	
			:TDAData	:PRINT <print>	
				:PRINT?	
			:PMONitor	:PRINT <print>	
				:PRINT?	
			:RECall	:EALogging <print>	
				:PRINT?	
				:EAHistogram <print>	
				:PRINT?	
				:TDAData <print>	
				:PRINT?	

## SECTION 5 REMOTE COMMAND LAYER

			:PMONitor	:PRINT	<print>	
				:PRINT?		
	:COPY	:START				
		:STOP				
		:STATE?				
:MEMory	:RECall		<numeric>			
	:STORE		<numeric>			
	:RESTore		<numeric>			
	:CLEAR		<numeric>			
	:LABEL		<numeric>,<title>			
	:LABEL?		<numeric>			
	:INITial					
	:ANALysis	:RECall	<numeric>			
		:STORE	<atype>			
		:CLEAR	<numeric>			
		:LABEL	<numeric>,<title>			
		:LABEL?	<numeric>			
		:AClear				
:MMEMory	:RECall		<dtype>,<file_name>			
	:STORE		<dtype>,<file_name>			
	:DELETE		<file_name>			
	:MDIRectory		<dir_name>			
	:REName		<src_file>,<dst_file>			
	:INITialize					
	:CATalog?		<numeric>			
	:CDIRectory		<dir_name>			
:DATE			<numeric1>,<numeric2>,<numeric3>			
:DATE?						
:TIME			<numeric1>,<numeric2>,<numeric3>			
:TIME?						
:BUZZer	:TKEY		<boolean>			
	:TKEY?					
	:OERRor		<boolean>			
	:OERRor?					
	:EALarm		<boolean>			
	:EALarm?					
:CODEc	:SVOLUME		<numeric>			
	:SVOLUME?					
	:SENable		<boolean>			
	:SENable?					
	:PCODE		<pcode>			
	:PCODE?					
:PSAVe	[:SET]		<boolean>			
	[:SET]?					
	:PERiod		<numeric>			
	:PERiod?					
:ECOut	:BCLock		<boolean>			
	:BCLock?					
	:BPSL		<boolean>			
	:BPSL?					
:FRELay	:PVC		<pvc>			
	:PVC?					
:INTerface	:VXTCmos	:TIMPedance	<timpedance>			
		:TIMPedance?				
		:DTCE	<dtce>			
		:DTCE?				

## 5.1 List of Remote Commands

		:K64	:TINTer	<tinter>	
			:TINTer?		
		:K192	:TMODe	<tmode>	*1
			:TMODe?		*1
			:CONNnection	<connection>	*1
			:CONNnection?		*1
			:TEI	<tei>	*1
			:TEI?		*1
			:TVALUE	<tvalue>	*1
			:TVALUE?		*1
			:TIMPedance	<timpedance>	
			:TIMPedance?		
			:PFEed	<pfeed>	
			:PFEed?		
			:CLOop	<boolean>	*1
			:CLOop?		*1
			:MFRame	<boolean>	
			:MFRame		
			:IDATA	:RNUMber	<rnumber>
				:RNUMber?	*1
				:RSUBaddress	<rsubadd>
				:RSUBaddress?	*1
				:RChannel	<rchannel>
				:RChannel?	*1
				:LSUBaddress	<lsubadd>
				:LSUBaddress?	*1
				:LChannel	<lchannel>
				:LChannel?	*1
				:IVOice	<rnumber>
				:RNUMber?	*1
				:RSUBaddress	<rsubadd>
				:RSUBaddress?	*1
				:RChannel	<rchannel>
				:RChannel?	*1
				:LSUBaddress	<lsubadd>
				:LSUBaddress?	*1
				:LChannel	<lchannel>
				:LChannel?	
		:M1_5	:TMODe	<tmode>	*1,*2
			:TMODe?		*1,*2
			:CLOop	<boolean>	*1,*2
			:CLOop?		*1,*2
			:IDATA	:RNUMber	<rnumber>
				:RNUMber?	*1,*2
				:RSUBaddress	<rsubadd>
				:RSUBaddress?	*1,*2
				:RChannel	<rchannel>
				:RChannel?	*1,*2
				:RHCHannel0	<rchannel0>
				:RHCHannel0?	*1,*2
				:LSUBaddress	<lsubadd>
				:LSUBaddress?	*1,*2
				:LChannel	<lchannel>
				:LChannel?	*1,*2
				:LHCChannel0	<lchannel0>
				:LHCChannel0?	*1,*2

## SECTION 5 REMOTE COMMAND LAYER

		:IVoice	:RNUMber	<rnumber>	*1,*2
			:RNUMber?		*1,*2
			:RSUBaddress	<rsubadd>	*1,*2
			:RSUBaddress?		*1,*2
			:RCHannel	<rchannel>	*1,*2
			:RCHannel?		*1,*2
			:LSUBaddress	<lsubadd>	*1,*2
			:LSUBaddress?		*1,*2
			:LCHannel	<lchannel>	
			:LCHannel?		
	:M2	:TMODE	<tmode>	*1	
		:TMODE?		*1	
		:IMPedance	<impedance>		*1
		:IMPedance?			*1
		:CLOop	<boolean>		*1
		:CLOop?			*1
		:IDATA	:RNUMber	<rnumber>	*1
			:RNUMber?		*1
			:RSUBaddress	<rsubadd>	*1
			:RSUBaddress?		*1
			:RCHannel	<rchannel>	*1
			:RCHannel?		*1
			:RHChannel0	<rchannel0>	*1
			:RHChannel0?		*1
			:LSUBaddress	<lsubadd>	*1
			:LSUBaddress?		*1
			:LCHannel	<lchannel>	*1
			:LCHannel?		*1
			:LHChannel0	<lhchannel0>	*1
			:LHChannel0?		*1
		:IVoice	:RNUMber	<rnumber>	*1
			:RNUMber?		*1
			:RSUBaddress	<rsubadd>	*1
			:RSUBaddress?		*1
			:RCHannel	<rchannel>	*1
			:RCHannel?		*1
			:LSUBaddress	<lsubadd>	*1
			:LSUBaddress?		*1
			:LCHannel		<lchan nel>
			:LCHannel?		
	:ISDN	:SPRotocol	<protocol>		*1
		:SPRotocol?			*1
	:DCONnect	:ISTart			*1
		:STOP			*1
		:STATE?			*1
	:VCONnect	:ISTart			*1
		:PSTart			*1
		:STOP			
		:STATE?			
	:ERRor?				
	:VERSion?				
	:BATTery?				

### 5.1.2 SOURce sub-system

The SOURce sub-system controls or sets the measurement conditions on the Tx side.

:SOURce	:TELecom	:INTerface	<interface>	*3
		:INTerface?		
		:TIMing	<timing>	
		:TIMing?		
		:IFSource	<ifsource>	
		:IFSource?		
		:SSBit	<boolean>	
		:SSBit?		
		:BRATe	<brate>	
		:BRATe?		
		:DLENgth	<dlength>	
		:DLENgth?		
		:PARity	<parity>	
		:PARity?		
		:STBit	<stbit>	
		:STBit?		
		:BSYNc	<boolean>	
		:BSYNc?		
		:SCONtrol	<scontrol>	
		:SCONtrol?		
		:CODE	<code>	*3
		:CODE?		
		:FRAMe	<frame>	*3
		:FRAMe?		
		:SKB8	<boolean>	
		:SKB8?		
	:TSLot	[:TYPE]	<tslot>	*3
		[:TYPE]?		
		:TSN	<numeric>	*4
		:TSN?		
		:DCHannel	<dchannel>	
		:DCHannel?		
		:DBRRate	<dbrate>	
		:DBRRate?		
		:DBRN	<numeric>	*4
		:DBRN?		
		:HCHannel0	<hchannel0>	*3
		:HCHannel0?		
		:TSASsign	<numeric1>,[<numeric2>],...[<numericN>]	*4
		:TSASsign?		
		:ATSassign		
		:CTSassign		
		:CHANnel	<channel>	*2
		:CHANnel?		*2
	:DFRame	[:TYPE]	<dframe>	
		[:TYPE]?		
		:XCHannel50	<numeric>	
		:XCHannel50?		
		:XASSign50	<numeric1>,[<numeric2>],...[<numeric80>]	
		:XASSign50?		
		:AXASSign50		
		:CXASSign50		

## SECTION 5 REMOTE COMMAND LAYER

		:MUX	<boolean>	
		:MUX?		
		:BASSign	<numeric>	
		:BASSign?		
		:BIT1	<bit>	
		:BIT1?		
		:BIT8	<bit>	
		:BIT8?		
		:ESIBit	<esibit>	
		:ESIBit?		
		:BStTeal	<boolean>	*2
		:BStTeal?		*2
		:QBit	<qbit>	
		:QBit?		
		:SABit	<sabit>	
		:SABit?		
		:SPBit	<spbit>	*2
		:SPBit?		*2
		:TSFrame16	<tsframe16>	
		:TSFrame16?		
		:SIGBit	<sigbit>	*3
		:SIGBit?		
		:VChannel1	<boolean>	
		:VChannel1?		
		:VTSLot	<numeric>	*4
		:VTSLot?		
		:VChannel2	<vchannel2>	
		:VChannel2?		
		:ITSLot	<itslot>	
		:ITSLot?		
		:CHARacter	:STADdress	<numeric>
			:STADdress?	
			:SPADdress	<numeric>
			:SPADdress?	
			:BOUNdary	<boundary>
			:BOUNdary?	
			:SHIFT	<shift>
			:INVert	
			:REVerse	
			:DATA	<address>,<worddata>
			:DATA?	<address>
			:MDATA	<address1>,<address2>,<worddata>
			:MDATA?	<address1>,<address2>
			:ALL0	
			:ALL1	
		:FRELay	:DLCI	<numeric>
			:DLCI?	
			:ITIMe	<numeric>
			:ITIMe?	
		:ERRor	:TYPE	<type>
			:TYPE?	
			:ERATE	[:TYPE] <type>
				[:TYPE]?
				:RATE <m>,<n>
				:RATE?
			:START	

## 5.1 List of Remote Commands

		:STOP		
		:STATe?		
	:FERRor			
	:ALARm	:AIS	<boolean>	
		:AIS?		
		:SA	<boolean>	*2
		:SA?		*2
		:RAI	<boolean>	
		:RAI?		
		:XA	<boolean>	
		:XA?		
		:HAIS	<boolean>	*2
		:HAIS?		*2
		:BAIS	<boolean>	*2
		:BAIS?		*2
	:SIGNal	:ER	<boolean>	
		:ER?		
		:RS	<boolean>	
		:RS?		
		:LLB	<boolean>	
		:LLB?		
		:RLB	<boolean>	
		:RLB?		
		:C	<boolean>	
		:C?		
		:IFT0	<boolean>	
		:IFT0?		
	:WTRace	:ICODE	<icode>	
		:ICODE?		
		:SDATa	<sdata>	
		:SDATa?		
		:SMEThod	<smethod>	
		:SMEThod?		
		:STADDress	<numeric>	
		:STADDress?		
		:SPADDress	<numeric>	
		:SPADDress?		
		:BOUNdary	<boundary>	
		:BOUNdary?		
		:SHIFT	<shift>	
		:INVert		
		:REVerse		
		:DATA	<address>,<worddata>	
		:DATA?	<address>	
		:MDATA	<address1>,<address2>,<worddata>	
		:MDATA?	<address1>,<address2>	
		:ALL0		
		:ALL1		
		:TDAData		
		:STARt		
		:STOP		
		:STATe?		
	:CAS	:SIGBit	<numeric>,<sbit>	*5
		:SIGBit?	<numeric>	*5
	:FAS	:DLBit	<boolean>	*5
		:DLBit?		*5

## SECTION 5 REMOTE COMMAND LAYER

		:DLBit	:PATTern	<dlbit>	*5
			:PATTern?		*5
		:SMF1	:SA4	<sabit>	*5
			:SA4?		*5
			:SA5	<sabit>	*5
			:SA5?		*5
			:SA6	<sabit>	*5
			:SA6?		*5
			:SA7	<sabit>	*5
			:SA7?		*5
			:SA8	<sabit>	*5
			:SA8?		*5
		:SMF2	:SA4	<sabit>	*5
			:SA4?		*5
			:SA5	<sabit>	*5
			:SA5?		*5
			:SA6	<sabit>	*5
			:SA6?		*5
			:SA7	<sabit>	*5
			:SA7?		*5
			:SA8	<sabit>	*5
			:SA8?		*5
			:SABit	<sabit>	*5
			:SABit?		*5

### 5.1.3 SENSe sub-system

The SENse sub-system controls or sets the measurement conditions on the Rx side.

:SENSe	:MTYPe		<mtype>	
	:MTYPe?			
	:TELecom	:INTerface	<interface>	*3
		:INTerface?		
		:TIMing	<timing>	
		:TIMing?		
		:SSBit	<boolean>	
		:SSBit?		
		:BRATE	<brate>	
		:BRATE?		
		:DLENgth	<dlength>	
		:DLENgth?		
		:PARity	<parity>	
		:PARity?		
		:BSYNc	<boolean>	
		:BSYNc?		
		:CODE	<code>	*3
		:CODE?		
		:FRAME	<frame>	*3
		:FRAME?		
		:SKB8	<boolean>	
		:SKB8?		
		:TSLot	[TYPE]	<tslot>
			[TYPE]?	
			:TSN	<numeric>
			:TSN?	
			:DCHannel	<dchannel>

## 5.1 List of Remote Commands

		:DCHannel?	
		:DBRate <dbrate>	
		:DBRate?	
		:DBRN <numeric>	*4
		:DBRN?	
		:HChannel0 <hchannel0>	*4
		:HChannel0?	
		:TSASsign <numeric1>,[<numeric2>],...[<numericN>]	*4
		:TSASsign?	
		:ATSassign	
		:CTSassign	
		:CHANnel <channel>	*2
		:CHANnel?	*2
		:DFRame [:TYPE] <dframe>	
		[:TYPE]?	
		:XChannel50 <numeric>	
		:XChannel50?	
		:XASSign50 <numeric1>,[<numeric2>],...[<numeric80>]	
		:XASSign50?	
		:AXASsign50	
		:CXASsign50	
		:DEMux <boolean>	
		:DEMux?	
		:BASSign <numeric>	
		:BASSign?	
		:BIT1 <bit>	
		:BIT1?	
		:BIT8 <bit>	
		:BIT8?	
		:BSTeal <boolean>	*2
		:BSTeal?	*2
		:VChannel1 <boolean>	
		:VChannel1?	
		:TSN <numeric>	*4
		:TSN?	
		:VChannel2 <vchannel2>	
		:VChannel2?	
		:ILEVel <ilevel>	
		:ILEVel?	
:MEASure		:RESet	
		:STIMe?	
		:ELAPsed?	
		:FRESet	
		:BRESet	
		:EALarm	:START
			:STOP
			:STATE?
			:TPATtern <tpattern>
			:TPATtern?
			:WORD8 <word8>
			:WORD8?
			:PINVert <boolean>
			:PINVert?
			:PTHreshold <pthreshold>

## SECTION 5 REMOTE COMMAND LAYER

			:PTHReshold?		
			:EDETECT	<edetect>	
			:EDETECT?		
			:BLENGTH	<blength>	
			:BLENGTH?		
			:TYPE	<mmode>	
			:TYPE?		
			:PERiod	<day>,<hour>,<minute>,<second>	
			:PERiod?		
			:BTIMe	:SET <boolean>	
				:SET?	
				:STARt	<year>,<month>,<day>,<hour>,<minute>,<second>
				:STARt?	
				:MSLave	<mslave>
				:MSLave?	
			:OPATtern	<boolean>	
			:OPATtern?		
				:PATTern	<opattern>
				:PATTern?	
			:LLINE	<boolean>	
			:LLINE?		
			:HLINe	<hline>	
			:HLINe?		
			:HRESolution	<gres>	
			:HRESolution?		
			:HFDetect	<boolean>	
			:HFDetect?		
			:FRDetect	<boolean>	
			:FRDetect?		
			:FRELay	:STARt	
				:STOP	
				:STATE?	
			:DEDelay	:STARt	
				:STOP	
				:STATE?	
				:TYPE	<type>
				:TYPE?	
				:INTerval	<interval>
				:INTerval?	
				:STTRigger	<trigger>,<point>
				:STTRigger?	
				:SPTRigger	<trigger>,<point>
				:SPTRigger?	
			:FREQuency	:STARt	
				:STOP	
				:STATE?	
				:LINE	<line>
				:LINE?	
				:GTIMe	<gtime>
				:GTIMe?	
				:INTerval	<interval>
				:INTerval?	
			:DLEVel	:STARt	
				:STOP	

		:STATE?	
		:LSElect	<dlline>
		:LSElect?	
		:PCODE	<pcode>
		:PCODE?	
	:WTRace	:START	
		:STOP	
		:STATE?	
		:TLINe	<tline>
		:TLINe?	
		:STTRigger	<sttrigger>
		:STTRigger?	
		:STPatterN	<stpattern>
		:STPatterN?	
		:SPTRigger	<sptrigger>
		:SPTRigger?	
		:SPPatterN	<sppattern>
		:SPPatterN?	
		:TBYTe	<numeric>
		:TBYTe?	
		:SDElay	<numeric>
		:SDElay?	
	:PMONitor	:START	
		:STOP	
		:STATE?	
		:CLEAR	

#### 5.1.4 DISPlay sub-system

The DISPlay sub-system performs control related to screens.

:DISPlay	:DSELect	[:NAME]		<dselect>
		[:NAME]?		
	:SYSTem	[:NAME]		<system>
		[:NAME]?		
		:ITYPe		<iotype>
		:ITYPe?		
	:FDISK	:SCRoll		<scroll>
	:INTerface	:TX	:BPAGe	
			:NPAGe	
			:STATE?	
		:RX	:BPAGe	
			:NPAGe	
			:STATE?	
	:EALarm	[:NAME]		<ealarm>
		[:NAME]?		
		:MTIMe		<mtime>
		:MTIMe?		
		:CHARacter	:EMODe	<emode>
			:EMODe?	
			:DMODe	<dmode>
			:DMODe?	
			:ADDRess	<numeric>
			:ADDRess?	
			:SCRoll	<scroll>
		:RESult	[:TYPE]	<type>

## SECTION 5 REMOTE COMMAND LAYER

		[:TYPE]?		
		:MODE	<rmode>	
		:MODE?		
		:RDISplay	<vtype>,<rdisplay>	
		:RDISplay?	<vtype>	
		:MORE	<vtype>,<pdisplay>	
		:MORE?	<vtype>	
		:ZOOM	<vtype>,<item1>,<item2>,<item3>	*3
		:ZOOM?	<vtype>	
	ASINs	:MORE		*2
	ASINs	:MORE?		*2
	:FAS	:SElect		*5
		:SElect?		*5
		:TXPause	<boolean>	*5
		:TXPause?		*5
		:RXPause	<boolean>	*5
		:RXPause?		*5
:FRELay	:MTIME		<mtime>	
	:MTIME?			
	ASINs	:MORE		*2
	ASINs	:MORE?		*2
DELay	ASINs	:MORE		*2
	ASINs	:MORE?		*2
FREQuency	ASINs	:MORE		*2
	ASINs	:MORE?		*2
DLEVel	ASINs	:MORE		*2
	ASINs	:MORE?		*2
:WTRace	[:NAME]		<wtrace>	
	[:NAME]?			
	:PRGMData	:EMODE	<emode>	
		:EMODE?		
		:DMODE	<dmode>	
		:DMODE?		
		:ADDRes	<numeric>	
		:ADDRes?		
		:SCRoll	<scroll>	
	ASINs	MORE		*2
	ASINs	MORE?		*2
:ANALysis	[:NAME]		<analysis>	
	[:NAME]?			
	:EALogging	:SCRoll	<scroll>	
	:EAHistogram	:ALARm1	<alarm>	*3
		:ALARm1?		
		:ALARm2	<alarm>	*3
		:ALARm2?		
		:ALARm3	<alarm>	*3
		:ALARm3?		
		:UNIT	<unit>	
		:UNIT?		
		:MDISplay	<boolean>	
		:MDISplay?		
		:SEARch	<search>	
		:GSTime	<year>,<month>,<day>,<hour>,<minute>,<second>	
		:GSTime?		
		:INTerval	<interval>	

## 5.1 List of Remote Commands

			:INTerval?		
			:SCRoll	<scroll>	
		:TDAData	:DMODE1	<display>	
			:DMODE1?		
			:DMODE2	<code>	
			:DMODE2?		
			:BOUNdary	<boundary>	
			:BOUNdary?		
			:INVert	<boolean>	
			:INVert?		
			:REVerse	<boolean>	
			:REVerse?		
			:SHIFT	<numeric>	
			:SHIFT?		
			:ADDRess	<numeric>	
			:ADDRess?		
			:SCRoll	<scroll>	
			:TSEarch		
			:SSEarch		
		:PMONitor	:SCRoll	<scroll>	
		:RECall	:NAME?		
			:TYPE?		
			:EALogging	:SCRoll	<scroll>
			:EAHistogram	:ALARm1	<alarm>
				:ALARm1?	*3
				:ALARm2	<alarm>
				:ALARm2?	*3
				:ALARm3	<alarm>
				:ALARm3?	*3
				:UNIT	<unit>
				:UNIT?	
				:MDISplay	<boolean>
				:MDISplay?	
				:SEARch	<search>
				:GSTime	<year>,<month>,<day>,<hour>,<minute>,<second>
				:GSTime?	
				:INTerval	<interval>
				:INTerval?	
				:SCRoll	<scroll>
		:TDAData	:DMODE1	<display>	
			:DMODE1?		
			:DMODE2	<code>	
			:DMODE2?		
			:BOUNdary	<boundary>	
			:BOUNdary?		
			:INVert	<boolean>	
			:INVert?		
			:REVerse	<boolean>	
			:REVerse?		
			:SHIFT	<numeric>	
			:SHIFT?		
			:ADDRess	<numeric>	
			:ADDRess?		
			:SCRoll	<scroll>	

## SECTION 5 REMOTE COMMAND LAYER

			:TSEarch		
			:SSEarch		
		:PMONitor	:SCRoll	<scroll>	
:MONitor	:SElect				
	:SElect?				
	:HISTory		<boolean>		
	:HISTory?				
:SCRoff	:START				
	:STOP				
	:STATE?				

### 5.1.5 CALCulate sub-system

The CALCulate sub-system sets the performance measurement and displays the measured result.

:CALCulate	:TELEcom	:PERFomance	:TYPE	<perform>		
			:TYPE?			
			:TTHReshold	:ES	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
				:SES	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
				:US	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
			:RTHReshold	:ES	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
				:SES	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
				:US	:SET	<boolean>
					:SET?	
					:S1	<numeric>
					:S1?	
					:S2	<numeric>
					:S2?	
	:DATA?			<string>		

	:MDATa	[::RESUlt]?		<rmode>	
	:SET			<item1>[,<item2>]...[,<item22>]	
	:SET?				
	:ANALysis	:EALogging	:DATA?	<start>,<stop>	
		:EAHistogram	:DATA?	<numeric1>,<numeric2>,<numeric3>,<numeric4>,<numeric5>,<numeric6>,<number>	
		:PMONitor	:DATA?	<start>,<stop>	
		:TDATa	:DATA?	<address1>,<address2>	
			:NUMBER?		
			:STRigger?		
		:RECall	:EALogging	:DATA? <start>,<stop>	
			:EAHistogram	:DATA? <numeric1>,<numeric2><numeric3>,<numeric4><numeric5>,<numeric6><number>	
			:TDATa	:DATA? <address1>,<address2>	
				:NUMBER?	
				:STRigger?	
			:PMONitor	:DATA? <start>,<stop>	
	:MONitor	:SALarm?		<string>	
		:DATA?			
		:COMMON?		<result>	
		:SBIT?		<result>	*5
		:FAS?		<result>	*5

### 5.1.6 TEST sub-system

The TEST sub-system performs control related to selftest.

:TEST	:TMode			<tmode>	
	:TMode?				
	:TItem			<titem>	*3
	:TItem?				
	:STATe?				
	:STARt				
	:STOP				
	:ECODE?			<block>	
	:RESUlt?				

### 5.1.7 STATus sub-system

The STATus sub-system controls the status registers.

:STATus	:PRESet				
	:QUEStionable	[::EVENT]?			
		:CONDITION?			
		:ENABLE		<numeric>	
		:ENABLE?			
		:PTRansition		<numeric>	
		:PTRansition?			
		:NTRansition		<numeric>	
		:NTRansition?			
		:TELecom	[::EVENT]?		
			:CONDITION?		

## SECTION 5 REMOTE COMMAND LAYER

			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:MEASure	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:EALarm	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:ERRor	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:TXALarm	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:RXALarm	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:TXALarm2	[::EVENT]?		
				:CONDITION?		
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			:RXAlarm2	[::EVENT]?		
				:CONDITION?		

## 5.1 List of Remote Commands

				:ENABLE	<numeric>
				:ENABLE?	
				:PTRansition	<numeric>
				:PTRansition?	
				:NTRansition	<numeric>
				:NTRansition?	
	:FRELay		[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
	:DELay		[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
	:FREQency		[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
	:MONitor		[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
			:SALarm1	[:EVENT]?	
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
			:SALarm2	[:EVENT]?	
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
			:SALarm3	[:EVENT]?	
			:CONDITION?		

## SECTION 5 REMOTE COMMAND LAYER

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:SALarm4	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:SALarm5	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:COMMON	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:SALarm	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:SALarm7	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:CONNection	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			:TXCas	[:EVENT?]		
				:CONDITION?		

## 5.1 List of Remote Commands

				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit1	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit2	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit3	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit4	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit5	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit6	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXSBit7	[:EVENT]?	
				:CONDITION?	

## SECTION 5 REMOTE COMMAND LAYER

					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			TXSBit8	[:EVENT]?		
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			TXSBit9	[:EVENT]?		
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			TXSBit10	[:EVENT]?		
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
		:RXCas	[:EVENT]?			
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			RXSBit1	[:EVENT]?		
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			RXSBit2	[:EVENT]?		
					:CONDITION?	
					:ENABLE <numeric>	
					:ENABLE?	
					:PTRransition <numeric>	
					:PTRransition?	
					:NTRransition <numeric>	
					:NTRransition?	
			RXSBit3	[:EVENT]?		
					:CONDITION?	

## 5.1 List of Remote Commands

				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit4	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit5	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit6	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit7	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit8	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit9	[:EVENT]?	
				:CONDITION?	
				:ENABLE	<numeric>
				:ENABLE?	
				:PTRAnsition	<numeric>
				:PTRAnsition?	
				:NTRAnsition	<numeric>
				:NTRAnsition?	
			RXSBit10	[:EVENT]?	
				:CONDITION?	

## SECTION 5 REMOTE COMMAND LAYER

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
		:TxFas1	[:EVENT?]			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit0	[:EVENT?]		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit1	[:EVENT?]		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit2	[:EVENT?]		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit3	[:EVENT?]		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit4	[:EVENT?]		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			TXFBit5	[:EVENT?]		
			:CONDITION?			

## 5.1 List of Remote Commands

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit6	[:EVENT?]		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit7	[:EVENT?]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit8	[:EVENT?]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit9	[:EVENT?]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit10	[:EVENT?]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit11	[:EVENT?]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit12	[:EVENT?]?		
				:CONDITION?		

## SECTION 5 REMOTE COMMAND LAYER

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit13	[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit14	[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
		:TXFas2		[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit15	[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit16	[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit17	[:EVENT]?		
				:CONDITION?		
				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
			TXFBit18	[:EVENT]?		
				:CONDITION?		

## 5.1 List of Remote Commands

				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			TXFBit19	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
		:RXFas1		[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			RXFBit0	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			RXFBit1	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			RXFBit2	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			RXFBit3	[:EVENT]?	
				:CONDITION?	
				:ENABLE <numeric>	
				:ENABLE?	
				:PTRansition <numeric>	
				:PTRansition?	
				:NTRansition <numeric>	
				:NTRansition?	
			RXFBit4	[:EVENT]?	
				:CONDITION?	

## SECTION 5 REMOTE COMMAND LAYER

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
	RXFBit5		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit6		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit7		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit8		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit9		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit10		[::EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
	RXFBit11		[::EVENT]?			
			:CONDITION?			

## 5.1 List of Remote Commands

				:ENABLE	<numeric>	
				:ENABLE?		
				:PTRansition	<numeric>	
				:PTRansition?		
				:NTRansition	<numeric>	
				:NTRansition?		
		RXFBit12	[:EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
		RXFBit13	[:EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
		RXFBit14	[:EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
		:RXFas2	[:EVENT]?			
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			RXFBit15	[:EVENT]?		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			RXFBit16	[:EVENT]?		
			:CONDITION?			
			:ENABLE	<numeric>		
			:ENABLE?			
			:PTRansition	<numeric>		
			:PTRansition?			
			:NTRansition	<numeric>		
			:NTRansition?			
			RXFBit17	[:EVENT]?		
			:CONDITION?			

## SECTION 5 REMOTE COMMAND LAYER

				:ENABLE	<numeric>
				:ENABLE?	
				:PTRansition	<numeric>
				:PTRansition?	
				:NTRansition	<numeric>
				:NTRansition?	
		RXFBit18	[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
		RXFBit19	[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		
:OPERation	[:EVENT]?				
	:CONDITION?				
	:ENABLE		<numeric>		
	:ENABLE?				
	:PTRansition		<numeric>		
	:PTRansition?				
	:NTRansition		<numeric>		
	:NTRansition?				
	:INSTrument	[:EVENT]?			
		:CONDITION?			
		:ENABLE	<numeric>		
		:ENABLE?			
		:PTRansition	<numeric>		
		:PTRansition?			
		:NTRansition	<numeric>		
		:NTRansition?			
		:BATTery	[:EVENT]?		
			:CONDITION?		
			:ENABLE	<numeric>	
			:ENABLE?		
			:PTRansition	<numeric>	
			:PTRansition?		
			:NTRansition	<numeric>	
			:NTRansition?		

## **SECTION 6 REMOTE COMMANDS**

## SECTION 6 REMOTE COMMANDS

### 6.1 Introduction to SCPI

The MD6430A adopts SCPI (Standard Commands for Programmable Instruments) to perform remote control.

This section describes the overview and command system of SCPI. Note that the example use and response of each command are represented in the following format:

> Program message (program command, query command)  
< Response

#### ■ Overview

SCPI is a device command language that is hardware-independent and defined by the SCPI consortium. The purpose of SCPI is that it makes program development periods for automatic test equipment (ATE) shorter and from this reason, it makes consistent programming environments such as, for example, the equipment control and data handling.

It also has a feature that as it is compatible among the homogeneous devices, and heterogeneous devices with the same function, it can exert an identical control when trying to control devices that have the same function.

#### ■ Command structure

```
:SOURce  
  :TELecom  
    :INTerface      <type>  
    :INTerface?
```

**Fig. 6.1-1 Example of SCPI Command Tree**

The SCPI command is based on a layer structure. The commands are grouped by each the particular function into a sub-system each of that makes up the layer structure.

This operation manual represents each sub-system by a command tree shown above. The same headers may appear in the tree, but the position of where those headers are located indicates a different function. This means that you must specify the full path that includes up to the header you use.

Ex.: SOURce sub-system

SOURce is a node on the highest level.

TELecom is a node on the 2nd highest level.

Both INTerface and INTerface? are a node on the 3rd highest level.

<type> is the parameter type for INTerface.

### 6.1.1 How to Read Details on Commands

The following sections describe command details. This section highlights how to read the commands and considerations to be taken.

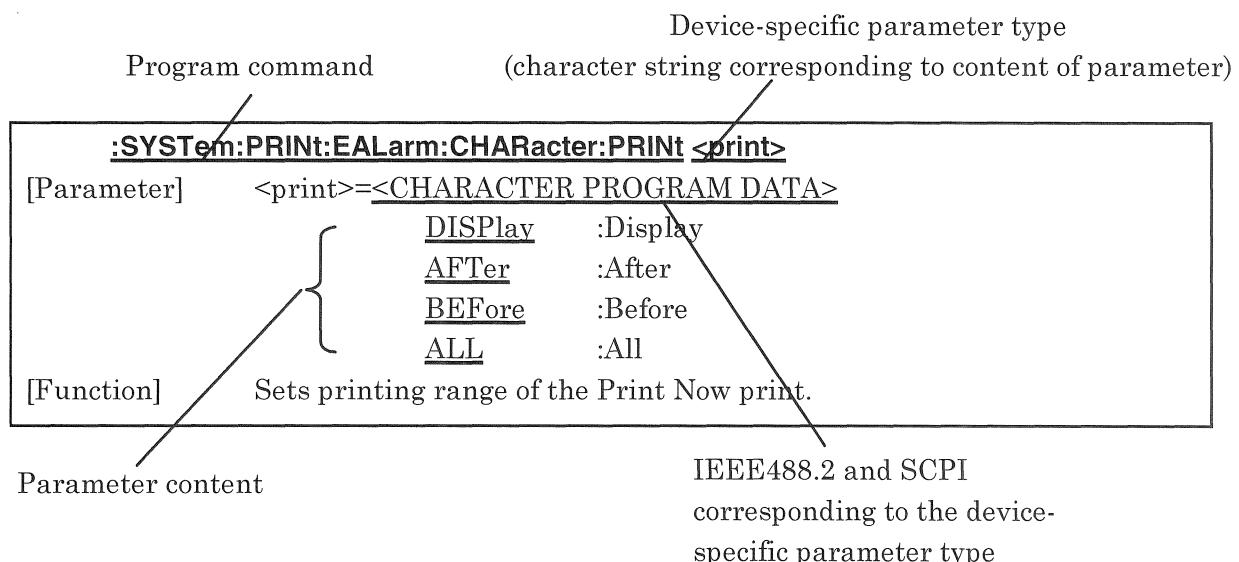
#### ■ Order of command description

The command details are described in the order of the command tree given in the previous sections. For the correspondence between the command and the screen/function, see APPENDIX A COMMAND LIST(SCPI).

#### ■ Program command example

To send a command listed below, specify the command as:

```
:SYSTem:PRINT:EALarm:CHARacter:PRINT <print>
```

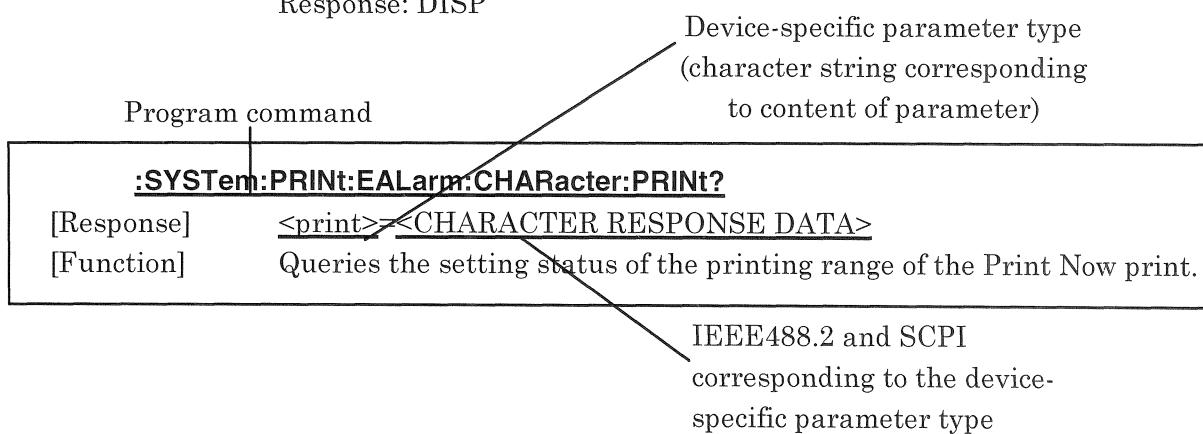


#### ■ Query command example

When the corresponding program command exists, the response data is same as the short form of its parameter. To send the following command, specify the command as:

```
:SYSTem:PRINT:EALarm:CHARacter:PRINT?
```

Response: DISP



## SECTION 6 REMOTE COMMANDS

### 6.1.2 Describing command

```
:SOURce:TELEcom:INTerface <Interface>    <Interface> = V24,V35,V36,RS449...
:SOURce:TELEcom:INTerface?
```

The command tree shown in the previous section comes down to the above description, respectively.

The following explains the conventions to rule the command description:

#### ■ Command format

Any command must start with a ':' and consists of headers that are concatenated with a ':'.

#### ■ Abbreviated header format

The header has short and long forms. A short form is the abbreviated form of the long form, and consists of uppercase letters that are part of a long-form header.

Any command in either a short form or a long form has the same semantics (one command may have a short and long form headers).

In describing the commands, uppercase and lowercase letters are used to discern short forms from long ones, but actually, the headers are not case-sensitive (for example, SOURCE, Source, and source are interpreted as the same header).

Ex.:	Long form	:SOURCE:TELECOM:INTERFACAE V24
	Short form	:SOUR:TEL:INT V24
	Long + Short	:SOUR:TELEcom:INT V24

#### ■ Optional node

A pair of square brackets ([]) indicates an optional node. Any header enclosed by a '[' and ']' may be omitted, but commands with a header of the omitted form and those of the not-omitted form do not make any difference as command.

Ex.: When including all the header	:DISPlay:SYSTem:NAME SSCommon
When omitting the header	:DISPlay:SYSTem SSCommon

#### ■ Command separator

One or more space must be inserted between the command and its parameter. Also, when using more two or more parameters, each parameter must be separated by a comma.

## 6.1 Introduction to SCPI

### ■ Composing multiple commands

The multiple commands can be composed by a ';' shown in the following examples. The second command is referenced as if it were on the lowest layer of the first command. From this reason, you can specify the second command with the full path as shown in the first example, but you can omit the headers higher than INT (= the lowest layer of the first command) as shown in the second example:

Ex.: :SOURce:TELecom:INTerface V24;:SOURce:TELecom:INTerface?  
:SOURce:TELecom:INTerface V24;:INTerface?

## SECTION 6 REMOTE COMMANDS

### 6.2 SYSTEm Sub-system

---

#### :SYSTEm:IOUTput[:TYPE] <type>

- [Parameter] <type>=<STRING PROGRAM DATA>  
"OUT1:IN1" :1Out/1In  
"IN1" :1In  
"IN2" :2In
- [Function] Sets change of input/output.  
[Screen] Input/Output of Setup:Input/Output screen  
[Example use] > :SYSTEm:IOUTput "OUT1:IN1"

#### :SYSTEm:IOUTput[:TYPE]?

- [Parameter] None  
[Response] <type>=<STRING RESPONSE DATA>  
The same as :SYSTEm:IOUTput[:TYPE].
- [Function] Queries the setting status of change of input/output.  
[Screen] Input/Output of Setup:Input/Output screen  
[Example use] > :SYSTEm:IOUTput[:TYPE]?  
< "OUT1:IN1"

#### :SYSTEm:PRINt:POUT <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets the On/Off of external printer output.  
[Screen] Print out of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:POUT 0

#### :SYSTEm:PRINt:POUT?

- [Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTEm:PRINt:POUT.
- [Function] Queries the setting status of the external printer output On/Off.  
[Screen] Print out of Setup Print screen  
[Example use] > :SYSTEm:PRINt:POUT?  
< 0

**:SYSTEm:PRINt:IDATA[:TYPE] <type>**

[Parameter]    <type>=<CHARACTER PROGRAM DATA>  
                   OFF                :Off  
                   INDividual      :Individual  
                   ACCumulate     :Accumulate  
 [Function]      Sets the intermediate data print.  
 [Screen]        Intermediate data of Setup:Print screen  
 [Example use]   > :SYSTEm:PRINt:IDATA OFF

**:SYSTEm:PRINt:IDATA[:TYPE]?**

[Parameter]    None  
 [Response]     <type>=<CHARACTER RESPONSE DATA>  
                   The same as :SYSTEm:PRINt:IDATA[:TYPE].  
 [Function]      Queries the setting status of the intermediate data print.  
 [Screen]        Intermediate data of Setup:Print screen  
 [Example use]   > :SYSTEm:PRINt:IDATA?  
                   < OFF

**:SYSTEm:PRINt:IDATA:PERiod <numeric>,<suffix>**

[Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   1 to 9 (step 1)  
 <suffix>=<CHARACTER PROGRAM DATA>  
                   SEC        :s  
                   MIN       :min  
                   HOUR      :h  
                   DAY       :day  
 [Function]      Sets the print period of intermediate data.  
 [Screen]        Intermediate data of Setup:Print screen  
 [Example use]   > :SYSTEm:PRINt:IDATA:PERiod 1,SEC

**:SYSTEm:PRINt:IDATA:PERiod?**

[Parameter]    None  
 [Response]     <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SYSTEm:PRINt:IDATA:PERiod.  
 <suffix>=<CHARACTER RESPONSE DATA>  
                   The same as :SYSTEm:PRINt:IDATA:PERiod.  
 [Function]      Queries the setting status of the intermediate data print period.  
 [Screen]        Intermediate data of Setup:Print screen  
 [Example use]   > :SYSTEm:PRINt:IDATA:PERiod?  
                   < 1,SEC

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:MCOndition <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets the On/Off of the measurement condition print.
- [Screen] Measuring condition of Setup:Print screen
- [Example use] > :SYSTem:PRINt:MCOndition 0

### :SYSTem:PRINt:MCOndition?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:PRINt:MCOndition.
- [Function] Queries the On/Off setting status of the measurement condition print.
- [Screen] Measuring condition of Setup:Print screen
- [Example use] > :SYSTem:PRINt:MCOndition?  
< 0

### :SYSTem:PRINt:ERROr:SET <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets the On/Off of error data one second print.
- [Screen] Error occurrence of Setup:Print screen
- [Example use] > :SYSTem:PRINt:ERROr:SET 0

### :SYSTem:PRINt:ERROr:SET?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:PRINt:ERROr:SET.
- [Function] Queries the On/Off setting status of the error data one second print.
- [Screen] Error occurrence of Setup:Print screen
- [Example use] > :SYSTem:PRINt:ERROr:SET?  
< 0

## 6.2 SYSTEm Sub-system

### :SYSTEm:PRINt:ERRor:UNIT <unit>

[Parameter] <unit>=<CHARACTER PROGRAM DATA>  
                  COUNT :Count  
                  RATE :Rate  
[Function] Sets the error data one second print format.  
[Screen] Unit of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ERRor:UNIT COUNT

### :SYSTEm:PRINt:ERRor:UNIT?

[Parameter] None  
[Response] <unit>=<CHARACTER RESPONSE DATA>  
                  The same as :SYSTEm:PRINt:ERRor:UNIT.  
[Function] Queries the setting status of the error data one second print format.  
[Screen] Unit of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ERRor:UNIT?  
                  < COUN

### :SYSTEm:PRINt:ERRor:THreshold:EC <ecount>

[Parameter] <ecount>=<STRING PROGRAM DATA>  
                  "OFF" :Off  
                  "1" :> 1  
                  "10" :> 10  
                  "100" :> 100  
                  "1000" :> 1000  
[Function] Sets the threshold value of error count.  
[Screen] Threshold of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ERRor:THreshold:EC "OFF"

### :SYSTEm:PRINt:ERRor:THreshold:EC?

[Parameter] None  
[Response] <ecount>=<STRING RESPONSE DATA>  
                  The same as :SYSTEm:PRINt:ERRor:THreshold:EC.  
[Function] Queries the setting status of the error count threshold value.  
[Screen] Threshold of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ERRor:THreshold:EC?  
                  < "OFF"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:ERRor:THReShold:ER <erate>

[Parameter] <erate>=<CHARACTER PROGRAM DATA>

OFF :Off

R1E\_3 :>1E-3

R1E\_4 :>1E-4

R1E\_5 :>1E-5

R1E\_6 :>1E-6

[Function] Sets the threshold value of error rate.

[Screen] Threshold of Setup:Print screen

[Example use] > :SYSTem:PRINt:ERRor:THReShold:ER "OFF"

### :SYSTem:PRINt:ERRor:THReShold:ER?

[Parameter] None

[Response] <erate>=<CHARACTER RESPONSE DATA>

The same as :SYSTem:PRINt:ERRor:THReShold:ER.

[Function] Queries the setting status of the error rate threshold value.

[Screen] Threshold of Setup:Print screen

[Example use] > :SYSTem:PRINt:ERRor:THReShold:ER?

< "OFF"

### :SYSTem:PRINt:SQuelch <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>

OFF or 0 :Off

ON or 1 :On

[Function] Sets the On/Off of print stop when successive error/alarm occurs.

[Screen] Print save of Setup:Print screen

[Example use] > :SYSTem:PRINt:SQuelch 0

### :SYSTem:PRINt:SQuelch?

[Parameter] None

[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>

The same as :SYSTem:PRINt:SQuelch.

[Function] Queries the On/Off setting status of print stop when successive error/alarm occurs.

[Screen] Print save of Setup:Print screen

[Example use] > :SYSTem:PRINt:SQuelch?

< 0

## 6.2 SYSTEm Sub-system

### :SYSTEm:PRINt:ALARm:SET <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of alarm data one second print.  
[Screen] Alarm occurrence of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ALARm:SET 0

### :SYSTEm:PRINt:ALARm:SET?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTEm:PRINt:ALARm:SET.  
[Function] Queries the On/Off setting status of alarm data one second print.  
[Screen] Alarm occurrence of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:ALARm:SET?  
< 0

### :SYSTEm:PRINt:LDATa:SET <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of measurement intermediate/last data print.  
[Screen] Last data of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:LDATa:SET 0

### :SYSTEm:PRINt:LDATa:SET?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTEm:PRINt:ALARm:SET.  
[Function] Queries the On/Off setting status of measurement intermediate/last data print.  
[Screen] Last data of Setup:Print screen  
[Example use] > :SYSTEm:PRINt:LDATa:SET?  
< 0

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:ILDCondition:ERRor <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of measurement intermediate/last error data print.

[Screen] Error of Setup:Print screen

[Example use] > :SYSTem:PRINt:ILDCondition:ERRor 0

### :SYSTem:PRINt:ILDCondition:ERRor?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:PRINt:ILDCondition:ERRor.  
[Function] Queries the On/Off setting status of measurement intermediate/last error data print.  
[Screen] Error of Setup:Print screen  
[Example use] > :SYSTem:PRINt:ILDCondition:ERRor?  
< 0

### :SYSTem:PRINt:ILDCondition:ALARm <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of measurement intermediate/last alarm data print.

[Screen] Alarm of Setup:Print screen

[Example use] > :SYSTem:PRINt:ILDCondition:ALARm 0

### :SYSTem:PRINt:ILDCondition:ALARm?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:PRINt:ILDCondition:ALARm.  
[Function] Queries the On/Off setting status of measurement intermediate/last alarm data print.  
[Screen] Alarm of Setup:Print screen  
[Example use] > :SYSTem:PRINt:ILDCondition:ALARm?  
< 0

## 6.2 SYSTem Sub-system

### **:SYSTem:PRINt:ILDCondition:PERFormance <boolean>**

- [Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                      OFF or 0 :Off  
                      ON or 1 :On
- [Function]        Sets the On/Off of measurement intermediate/last performance data print.
- [Screen]          Performance of Setup:Print screen
- [Example use]     > :SYSTem:PRINt:ILDCondition:PERFormance 0

### **:SYSTem:PRINt:ILDCondition:PERFormance?**

- [Parameter]       None
- [Response]        <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                      The same as :SYSTem:PRINt:ILDCondition:PERFormance.
- [Function]        Queries the On/Off setting status of measurement intermediate/last performance data print.
- [Screen]          Performance of Setup:Print screen
- [Example use]     > :SYSTem:PRINt:ILDCondition:PERFormance?  
                      < 0

### **:SYSTem:PRINt:ILDCondition:HDLC <boolean>**

- [Parameter]       <boolean>=<BOOLEAN PROGRAM DATA>  
                      OFF or 0 :Off  
                      ON or 1 :On
- [Function]        Sets the On/Off of measurement intermediate/last HDLC error data print.
- [Screen]          HDLC Frame error of Setup:Print screen
- [Example use]     > :SYSTem:PRINt:ILDCondition:HDLC 0

### **:SYSTem:PRINt:ILDCondition:HDLC?**

- [Parameter]       None
- [Response]        <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                      The same as :SYSTem:PRINt:ILDCondition:HDLC.
- [Function]        Queries the On/Off setting status of measurement intermediate/last HDLC error data print.
- [Screen]          HDLC Frame error of Setup:Print screen
- [Example use]     > :SYSTem:PRINt:ILDCondition:HDLC?  
                      < 0

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:EALarm:CHARacter:PRINt <print>

- [Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All
- [Function] Sets printing range of the Print Now print.
- [Screen] Character:Print of Measure:Error/Alarm screen
- [Example use] > :SYSTem:PRINt:EALarm:CHARacter:PRINt DISPlay

### :SYSTem:PRINt:EALarm:CHARacter:PRINt?

- [Parameter] None
- [Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:EALarm:CHARacter:PRINt.
- [Function] Queries the setting status of the printing range of the Print Now print.
- [Screen] Character:Print of Measure:Error/Alarm screen
- [Example use] > :SYSTem:PRINt:EALarm:CHARacter:PRINt?  
< DISP

### :SYSTem:PRINt:WTRace:PDATA:PRINt <print>

- [Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All
- [Function] Sets printing range of the Print Now print.
- [Screen] PRGM data:Print of Measure:Word trace screen
- [Example use] > :SYSTem:PRINt:WTRace:PDATA:PRINt DISPlay

### :SYSTem:PRINt:WTRace:PDATA:PRINt?

- [Parameter] None
- [Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:WTRace:PDATA:PRINt.
- [Function] Queries the setting status of the printing range of the Print Now print.
- [Screen] PRGM data:Print of Measure:Word trace screen
- [Example use] > :SYSTem:PRINt:WTRace:PDATA:PRINt?  
< DISP

## 6.2 SYSTem Sub-system

### :SYSTem:PRINt:ANALyze:EALogging:PRINt <print>

[Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All  
[Function] Sets printing range of the Print Now print.  
[Screen] Logging:Print of Analyze:Error/Alarm screen  
[Example use] > :SYSTem:PRINt:ANALyze:EALogging:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:EALogging:PRINt?

[Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:EALogging:PRINt  
[Function] Queries the setting status of the printing range of the Print Now print.  
[Screen] Logging:Print of Analyze:Error/Alarm screen  
[Example use] > :SYSTem:PRINt:ANALyze:EALogging:PRINt?  
< DISP

### :SYSTem:PRINt:ANALyze:EAHistogram:PRINt <print>

[Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All  
[Function] Sets printing range of the Print Now print.  
[Screen] Histogram:Print of Analyze:Error/Alarm screen  
[Example use] > :SYSTem:PRINt:ANALyze:EAHistogram:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:EAHistogram:PRINt?

[Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:EAHistogram:PRINt.  
[Function] Queries the setting status of the printing range of the Print Now print.  
[Screen] Histogram:Print of Analyze:Error/Alarm screen  
[Example use] > :SYSTem:PRINt:ANALyze:EAHistogram:PRINt?  
< DISP

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:ANALyze:TDATa:PRINt <print>

[Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All

[Function] Sets printing range of the Print Now print.

[Screen] Print of Analyze:Trace data screen

[Example use] > :SYSTem:PRINt:ANALyze:TDATa:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:TDATa:PRINt?

[Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:TDATa:PRINt.

[Function] Queries the setting status of the printing range of the Print Now print.

[Screen] Print of Analyze:Trace data screen

[Example use] > :SYSTem:PRINt:ANALyze:TDATa:PRINt?  
< DISP

### :SYSTem:PRINt:ANALyze:PMONitor:PRINt <print>

[Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All

[Function] Sets printing range of the Print Now print.

[Screen] Print of Analyze:Protocol monitor screen

[Example use] > :SYSTem:PRINt:ANALyze:PMONitor:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:PMONitor:PRINt?

[Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:PMONitor:PRINt.

[Function] Queries the setting status of the printing range of the Print Now print.

[Screen] Print of Analyze:Protocol monitor screen

[Example use] > :SYSTem:PRINt:ANALyze:PMONitor:PRINt?  
< DISP

## 6.2 SYSTem Sub-system

### :SYSTem:PRINt:ANALyze:RECall:EALogging:PRINt <print>

- [Parameter]      <print>=<CHARACTER PROGRAM DATA>  
                  DISPlay :Display  
                  AFTer :After  
                  BEForE :Before  
                  ALL :All
- [Function]        Sets printing range of the Print Now print.
- [Screen]          Print of Analyze:Recall(E/A Logging) screen
- [Restriction]     If data does not exist, execution error is resulted.
- [Example use]    > :SYSTem:PRINt:ANALyze:RECall:EALogging:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:RECall:EALogging:PRINt?

- [Parameter]       None
- [Response]        <print>=<CHARACTER RESPONSE DATA>  
                  The same as :SYSTem:PRINt:ANALyze:RECall:EALogging:PRINt.  
                  If data does not exist, <print>=<STRING RESPONSE DATA> is set and  
                  "No Data" is returned.
- [Function]        Queries the setting status of the printing range of the Print Now print.
- [Screen]          Print of Analyze:Recall(E/A Logging) screen
- [Example use]    > :SYSTem:PRINt:ANALyze:RECall:EALogging:PRINt?  
                  < DISP

### :SYSTem:PRINt:ANALyze:RECall:EAHistogram:PRINt <print>

- [Parameter]       <print>=<CHARACTER PROGRAM DATA>  
                  DISPlay :Display  
                  AFTer :After  
                  BEForE :Before  
                  ALL :All
- [Function]        Sets printing range of the Print Now print.
- [Screen]          Print of Analyze:Recall(E/A Histgrm) screen
- [Restriction]     If data does not exist, execution error is resulted.
- [Example use]    > :SYSTem:PRINt:ANALyze:RECall:EAHistogram:PRINt DISPlay

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:ANALyze:RECall:EAHistogram:PRINt?

- [Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:RECall:EAHistogram:PRINt.  
If data does not exist, <print>=<STRING RESPONSE DATA> is set and "No Data" is returned.  
[Function] Queries the setting status of the printing range of the Print Now print.  
[Screen] Print of Analyze:Recall (E/A Histgrm)  
[Example use] > :SYSTem:PRINt:ANALyze:RECall:EAHistogram:PRINt?  
< DISP

### :SYSTem:PRINt:ANALyze:RECall:TDATa:PRINt <print>

- [Parameter] <print>=<CHARACTER PROGRAM DATA>  
DISPlay :Display  
AFTer :After  
BEForE :Before  
ALL :All  
[Function] Sets printing range of the Print Now print.  
[Screen] Print of Analyze:Recall (Trace data) screen  
[Restriction] If data does not exist, execution error is returned.  
[Example use] > :SYSTem:PRINt:ANALyze:RECall:TDATa:PRINt DISPlay

### :SYSTem:PRINt:ANALyze:RECall:TDATa:PRINt?

- [Parameter] None  
[Response] <print>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:PRINt:ANALyze:RECall:TDATa:PRINt.  
If data does not exist, <print>=<STRING RESPONSE DATA> is set and "No Data" is returned.  
[Function] Queries the setting status of the printing range of the Print Now print.  
[Screen] Print of Analyze:Recall(Trace data) screen.  
[Example use] > :SYSTem:PRINt:ANALyze:RECall:TDATa:PRINt?  
< DISP

**:SYSTEm:PRINt:ANALyze:RECall:PMONitor:PRINt <print>**

- [Parameter]      <print>=<CHARACTER PROGRAM DATA>  
                   DISPlay :Display  
                   AFTer :After  
                   BEForE :Before  
                   ALL :All
- [Function]        Sets printing range of the Print Now print.
- [Screen]           Print of Analyze:Recall(Protocol monitor) screen
- [Restriction]     If data does not exist, execution error is returned.
- [Example use]     > :SYSTEm:PRINt:ANALyze:RECall:PMONitor:PRINt DISPlay

**:SYSTEm:PRINt:ANALyze:RECall:PMONitor:PRINt?**

- [Parameter]       None
- [Response]       <print>=<CHARACTER RESPONSE DATA>  
                   The same as :SYSTEm:PRINt:ANALyze:RECall:PMONitor:PRINt.  
                   If data does not exist, <print>=<STRING RESPONSE DATA> is set and  
                   "No Data" is returned.
- [Function]        Queries the setting status of the printing range of the Print Now print.
- [Screen]           Print of Analyze:Recall(Protocol monitor) screen.
- [Example use]     > :SYSTEm:PRINt:ANALyze:RECall:PMONitor:PRINt?  
                   < DISP

**:SYSTEm:PRINt:COPY:STARt**

- [Parameter]       None
- [Function]        Sets start of executing the Print Now print.
- [Screen]           Print Now key
- [Restriction]     When the Print Now printing is in progress, this function is ignored and the  
                   execution error is returned.
- [Example use]     > :SYSTEm:PRINt:COPY:STARt

**:SYSTEm:PRINt:COPY:STOP**

- [Parameter]       None
- [Function]        Sets stop of executing the Print Now print.
- [Screen]           Print Now key
- [Example use]     > :SYSTEm:PRINt:COPY:STOP

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PRINt:COPY:STATe?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
    0 :Printing is completed or not executed yet.  
    1 :Printing is in progress.  
[Function] Queries execution status of the Print Now printing.  
[Screen] None  
[Example use] > :SYSTem:PRINt:COPY:STATe?  
          < 1

### :SYSTem:MEMory:RECall <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
          0 to 10 (step 1)  
[Function] Sets Recall of the measurement condition storage memory.  
[Screen] Measurement condition of Setup:Memory screen  
[Example use] > :SYSTem:MEMory:RECall 1

### :SYSTem:MEMory:STORe <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
          1 to 10 (step 1)  
[Function] Sets Store of the measurement condition storage memory.  
[Screen] Measurement condition of Setup:Memory screen  
[Example use] > :SYSTem:MEMory:STORe 1

### :SYSTem:MEMory:RESTore <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
          1 to 10 (step 1)  
[Function] Sets Restore of the measurement condition storage memory.  
[Screen] Measurement condition of Setup:Memory screen  
[Example use] > :SYSTem:MEMory:RESTore 1

### :SYSTem:MEMory:CLEar <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
          1 to 10 (step 1)  
[Function] Sets Clear of the measurement condition storage memory.  
[Screen] Measurement condition of Setup:Memory screen  
[Example use] > :SYSTem:MEMory:CLEar 1

## 6.2 SYSTEm Sub-system

### :SYSTEm:MEMory:LAbel <numeric>,<title>

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      1 to 10 (step 1)  
[Parameter]      <title>=<STRING PROGRAM DATA>  
                      "Memory name"  
[Function]        Sets name of the measurement condition storage memory.  
[Screen]          Measurement condition of Setup:Memory screen  
[Example use]     When setting the name TEST1 to the measurement condition storage  
                      memory 1:  
                      > :SYSTEm:MEMory:LAbel 1,"TEST1"

### :SYSTEm:MEMory:LAbel? <numeric>

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      The same as :SYSTEm:MEMory:LAbel.  
[Response]        <title>=<STRING RESPONSE DATA>  
                      The same as :SYSTEm:MEMory:LAbel.  
                      However, if data does not exist, "\*\*\*\*\*"  
[Function]        Queries the name of the measurement condition storage memory.  
[Screen]          Measurement condition of Setup:Memory screen  
[Example use]     When querying the name TEST1 of the measurement condition storage  
                      memory 1:  
                      > :SYSTEm:MEMory:LAbel? 1  
                      < "TEST1"

### :SYSTEm:MEMory:INITial

- [Parameter]      None  
[Function]        Sets Initial of the all measurement conditions storage memory.  
[Screen]          Measurement condition of Setup:Memory screen  
[Example use]     > :SYSTEm:MEMory:INITial

### :SYSTEm:MEMory:ANALysis:RECall <numeric>

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      1 to 10 (step 1)  
[Function]        Sets Recall of the Analyze & Programmable data storage memory.  
[Screen]          Analyze & Programmable data of Setup:Memory screen  
[Example use]     > :SYSTEm:MEMory:ANALysis:RECall 1

## SECTION 6 REMOTE COMMANDS

### :SYSTem:MEMory:ANALysis:STORe <atype>

- [Parameter] <atype>=<CHARACTER PROGRAM DATA>  
CHARacter : Character pattern data  
EALogging : Error/Alarm log data  
EAHistogram : Error/Alarm graph data  
PROGram : Program data  
TRACe : Trace data  
PMONitor : Protocol monitor
- [Function] Sets Store of the Analyze & Programmable data storage memory.
- [Screen] Character:Store of Measure:Error/Alarm screen  
Logging:Store of Analyze:Error/Alarm screen  
Histogram:Store of Analyze:Error/Alarm screen  
PRGM DataStore of Measure:Word trace screen  
Store of Analyze:Trace data screen  
Store of Analyze:Protocol monitor screen
- [Example use] > :SYSTem:MEMory:ANALysis:STORe CHARacter

### :SYSTem:MEMory:ANALysis:CLEar <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 10 (step 1)
- [Function] Sets Clear of the Analyze & Programmable data storage memory.
- [Screen] Analyze & Programmable data of Setup:Memory screen.
- [Example use] > :SYSTem:MEMory:ANALysis:CLEar 1

### :SYSTem:MEMory:ANALysis:LABel <numeric>,<title>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 10 (step 1)  
<title>=<STRING PROGRAM DATA>  
"Memory name"
- [Function] Sets name of the Analyze & Programmable data storage memory.
- [Screen] Analyze & Programmable data of Setup:Memory screen
- [Example use] When setting the name TEST1 to the Analyze & Programmable data storage memory 1:  
> :SYSTem:MEMory:ANALysis:LABel 1,"TEST1"

## 6.2 SYSTem Sub-system

### :SYSTem:MEMory:ANALysis:LABEL? <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
The same as :SYSTem:MEMory:ANALysis:LABEL.
- [Response] <atype>=<CHARACTER RESPONSE DATA>  
CHARacter : Character pattern data  
EALogging : Error/Alarm log data  
EAHistogram : Error/Alarm graph data  
PROGram : Program data  
TRACe : Trace data  
PMONitor : Protocol monitor  
NONE : When data does not exist  
<title>=<STRING RESPONSE DATA>  
The same as :SYSTem:MEMory:ANALysis:LABEL.  
However, if data does not exist, "\*\*\*\*\*" is displayed.
- [Function] Queries the data type and the name of the Analyze & Programmable data storage memory.
- [Screen] Analyze & Programmable data of Setup:Memory screen
- [Example use] When querying the name TEST of the character pattern data from the Analyze & Programmable data storage memory 1:  
> :SYSTem:MEMory:ANALysis:LABEL? 1  
< CHAR,"TEST1"

### :SYSTem:MEMory:ANALysis:AClear

- [Parameter] None
- [Function] Sets Clear all of the all Analyze & Programmable data storage memories.
- [Screen] Analyze & Programmable data of Setup:Memory screen
- [Example use] > :SYSTem:MEMory:ANALysis:AClear

## SECTION 6 REMOTE COMMANDS

**:SYSTem:MMEMory:RECall <dtype>,<file\_name>**

- [Parameter]    <dtype>=<STRING PROGRAM DATA>
- |                       |   |
|-----------------------|---|
| "CONDition"           | :Measurement condition data (Binary)      |
| "CHARacter:BINary"    | :Character pattern data (Binary)          |
| "CHARacter:TEXT"      | :Character pattern data (Text)            |
| "EALogging:BINary"    | :Error/Alarm log data (Binary)            |
| "EALogging:BINary"    | :Error/Alarm log data (Recall) (Binary)   |
| "EAHistogram:BINary"  | :Error/Alarm graph data (Binary)          |
| "REAHistogram:BINary" | :Error/Alarm graph data (Recall) (Binary) |
| "PROGram:BINary"      | :Program data (Binary)                    |
| "PROGram:TEXT"        | :Program data (Text)                      |
| "TRACe:BINary"        | :Trace data (Binary)                      |
| "RTRace:BINary"       | :Trace data (Recall) (Binary)             |
| "PMONitor:TEXT"       | :Protocol monitor data (Text)             |
- <file\_name>=<STRING PROGRAM DATA>
- "File name"
- Upper case and lower case are not discriminated. Includes the extension identifier.
- Maximum 12 characters (" "(double quotation marks) are not included.)
- [Function]    Sets the reading out of files from FD.
- [Screen]      Load of Setup:Floppy disk screen
- [Restriction]   The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use]   When reading the file TEST\_001.CND of the measurement condition data:  
                  > :SYSTem:MMEMory:RECall "CONDition","TEST\_001.CND"

## 6.2 SYSTEm Sub-system

**:SYSTEm:MMEMory:STORe <dtype>,<file\_name>**

[Parameter]	<dtype>=<STRING PROGRAM DATA>
	"CONDITION" :Measurement condition data (Binary)
	"CHARacter:BINary" :Character pattern data (Binary)
	"CHARacter:TEXT" :Character pattern data (Text)
	"EALogging:BINary" :Error/Alarm log data (Binary)
	"EALogging:TEXT" :Error/Alarm log data (Text)
	"REALogging:BINary" :Error/Alarm log data (Recall) (Binary)
	"REALogging:TEXT" :Error/Alarm log data (Recall) (Text)
	"EAHistogram:BINary" :Error/Alarm graph data (Binary)
	"EAHistogram:TEXT" :Error/Alarm graph data (Text)
	"REAHistogram:BINary" :Error/Alarm graph data (Recall) (Binary)
	"REAHistogram:TEXT" :Error/Alarm graph data (Recall) (Text)
	"PROGram:BINary" :Program data (Binary)
	"PROGram:TEXT" :Program data (Text)
	"TRACe:BINary" :Trace data (Binary)
	"TRACe:TEXT" :Trace data (Text)
	"RTRace:BINary" :Trace data (Recall) (Binary)
	"RTRace:TEXT" :Trace data (Recall) (Text)
	"PMONitor:TEXT" :Protocol monitor (Binary)
	"RPMONitor:TEXT" :Protocol monitor (Recall) (Text)
	<file_name>=<STRING PROGRAM DATA>
	"File name"
	Upper case and lower case are not discriminated. Includes extension identifier.
	Maximum 12 characters (" " are not included.)
[Function]	Sets the writing down of files into FD.
[Screen]	Save of Setup:Floppy disk screen
[Restriction]	The execution error "Setting conflict" is returned when the self-test is in progress.
[Example use]	When writing down the measurement condition data to the file TEST_001.CND: > :SYSTEm:MMEMory:STORe "CONDITION","TEST_001.CND"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:MMEMory:DELetE <file\_name>

- [Parameter]    <file\_name>=<STRING PROGRAM DATA>  
               "File/directory name"  
               Upper case and lower case are not discriminated.  
               Includes the extension identifier for files.  
               Maximum 12 characters (" " are not included.).
- [Function]    Sets deletion of file/directory on FD.
- [Screen]      Delete of Setup:Floppy disk screen
- [Restriction]   The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use]   When deleting the file TEST\_01.CND that is located in the current directory:  
                  > :SYSTem:MMEMory:DELetE "TEST\_01.CND"

### :SYSTem:MMEMory:MDIRectory <dir\_name>

- [Parameter]    <dir\_name>=<STRING PROGRAM DATA>  
               "Directory name"  
               Upper case and lower case are not discriminated.  
               Maximum 12 characters (" " are not included.)
- [Function]    Sets creation of directory in FD.
- [Screen]      Makedir of Setup:Floppy disk screen
- [Restriction]   The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use]   When creating the directory MD6430A in the current directory:  
                  > :SYSTem:MMEMory:MDIRectory "MD6430A"

**:SYSTem:MMEMory:REName <src\_file>,<dst\_file>**

- [Parameter]    <dir\_name>=<STRING PROGRAM DATA>  
                   "Name of source file/directory"  
                   Upper case and lower case are not discriminated.  
                   Maximum 12 characters (" " are not included.)
- <dst\_file>=<STRING PROGRAM DATA>  
                   "Name of target file/directory"  
                   Upper case and lower case are not discriminated.  
                   Maximum 12 characters (" " are not included.)
- [Function]    Sets renaming of file/directory in FD.
- [Screen]      Rename of Setup:Floppy disk screen
- [Restriction] The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use] When renaming the file TEST01.CND that is located in the current directory, to TEST02.CND:  
                   > :SYSTem:MMEMory:REName "TEST01.CND","TEST02.CND"

**:SYSTem:MMEMory:INITialize**

- [Parameter]    None
- [Function]     Sets initialization (formatting) of FD.
- [Screen]      Format of Setup:Floppy disk screen
- [Restriction] The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use] > :SYSTem:MMEMory:INITialize

## SECTION 6 REMOTE COMMANDS

**:SYSTem:MMEMory:CATalog? <numeric>**

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      The first line number of the display data.  
                      The file or directory having the newest date, should have the line number  
                      1.  
                      1 to 200 (step 1)
- [Response]        <use\_byte>=<NR1 NUMERIC RESPONSE DATA>  
                      Memory capacity in use  
                      0 to 1457664
- <free\_byte>=<NR1 NUMERIC RESPONSE DATA>  
                      Empty capacity  
                      0 to 1457664
- <current\_dir>=<STRING RESPONSE DATA>  
                      "Name of current directory"  
                      The character string length should be in the range of 1 to 255 letters.
- <current\_file>=<NR1 NUMERIC RESPONSE DATA>  
                      Number of all files/directories in the current directory  
                      0 to 200
- <file\_entry>=<STRING RESPONSE DATA>  
                      File/directory information of current directory.  
                      The following information is output for each file/directory.  
                      The information is output starting from that of the newest date, and  
                      directories are output prior to files.
- <file\_name>    : Name of file/directory  
                            Upper case (File name includes extension identifier.  
                            Directory name is surrounded by <>.)
- <file\_size>    :File size (Form1)
- <data\_time>    :Year, month, day, hour, time and minute of file.
- (Note) If the FD information cannot be read out, the followings are output:  
                      0,0,"-----",0,"-----",-----"
- [Function]        Queries the FD information.  
                      The maximum number of the file/directory information that can be output at  
                      one time, is up to four.
- [Screen]          Setup:Floppy disk screen
- [Example use]     > :SYSTem:MMEMory:CATalog? 1  
                      < 1024,1456640,"MP6430A",35,  
                      "<DELAY\_01>,-----,-----,  
                      <DELAY\_02>,-----,-----.  
                      TEST\_001.CND,        256 10:30 31/Dec/1998,  
                      TEST\_002.CND,        256 10:22 31/Dec/1998"

**:SYSTEm:MMEMOry:CDIRectory <dir\_name>**

- [Parameter]    <dir\_name>=<STRING PROGRAM DATA>  
                   "Directory name"  
                   Upper case and lower case are not discriminated.  
                   Either relative path or full path can be assigned.  
                   Character string length must be in the range of 1 to 255.    " " cannot be used.
- [Function]      Sets movement of directory of FD.
- [Screen]         Setup:Floppy disk screen
- [Restriction]    The execution error "Setting conflict" is returned when the self-test is in progress.
- [Example use]    When moving the directory to the directory that has the name MD6430A that is located in the root directory:  
                   :SYSTEm:MMEMOry:CDIRectory "¥MD6430A"  
                   When moving the directory to the directory that has the name MD6430A that is located in the current directory:  
                   :SYSTEm:MMEMOry:CDIRectory "MD6430A"

**:SYSTEm:DATE <numeric1>,<numeric2>,<numeric3>**

- [Parameter]    <numeric1>,<numeric2>,<numeric3>=  
                   <DECIMAL NUMERIC PROGRAM DATA>  
                   1997 to 2096 (step1)    :<numeric1>  
                   1 to 12 (step1)        :<numeric2>  
                   1 to 31 (step1)        :<numeric3>
- [Function]      Sets the present date.
- [Screen]         Common:Date & Time adjust of Setup:System screen
- [Example use]    When setting the present date to December 31st, 1998:  
                   > :SYSTEm:DATE 1998,12,31

**:SYSTEm:DATE?**

- [Parameter]    None
- [Response]     <numeric1>,<numeric2>,<numeric3>=  
                   <NR1 NUMERIC RESPONSE DATA>  
                   The same as :SYSTEm:DATE.
- [Function]      Queries the present date.
- [Screen]         Common:Date & Time adjust of Setup:System screen
- [Example use]    > :SYSTEm:DATE?  
                   < 1998,12,31

## SECTION 6 REMOTE COMMANDS

### :SYSTem:TIME <numeric1>,<numeric2>,<numeric3>

[Parameter] <numeric1>,<numeric2>,<numeric3>=  
                  <DECIMAL NUMERIC PROGRAM DATA>  
          0 to 23 (step 1)    :<numeric1>  
          0 to 59 (step 1)   :<numeric2>  
          0 to 59 (step 1)   :<numeric3>  
[Function]     Sets the present time.  
[Screen]      Common:Date & Time adjust of Setup:System screen  
[Example use] When setting the present time to 14 hours 0 minute 0 second:  
          > :SYSTem:TIME 14,0,0

### :SYSTem:TIME?

[Parameter] None  
[Response] <numeric1>,<numeric2>,<numeric3>=  
                  <NR1 NUMERIC RESPONSE DATA>  
                  The same as :SYSTem:TIME.  
[Function]    Queries the present time.  
[Screen]      Common:Date & Time adjust of Setup:System screen  
[Example use] > :SYSTem:TIME?  
              < 14,0,0

### :SYSTem:BUZZer:TKEY <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
              OFF or 0 :Off  
              ON or 1 :On  
[Function]    Sets the On/Off of buzzer (touch sound).  
[Screen]      Common:Touch key of Setup:System screen  
[Example use] > :SYSTem:BUZZer:TKEY 0

### :SYSTem:BUZZer:TKEY?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
              The same as:SYSTem:BUZZer:TKEY.  
[Function]    Queries the On/Off setting status of buzzer (touch sound).  
[Screen]      Common:Touch key of Setup:System screen  
[Example use] > :SYSTem:BUZZer:TKEY?  
              < 0

## 6.2 SYSTem Sub-system

### :SYSTem:BUZZer:OERRor <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of buzzer (operation error).  
[Screen] Common:Operation error of Setup:System screen  
[Example use] > :SYSTem:BUZZer:OERRor 0

### :SYSTem:BUZZer:OERRor?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:BUZZer:OERRor.  
[Function] Queries the On/Off setting status of buzzer (operation error).  
[Screen] Common:Operation error of Setup:System screen  
[Example use] > :SYSTem:BUZZer:OERRor?  
< 0

### :SYSTem:BUZZer:EALarm <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of buzzer (error/alarm).  
[Screen] Common:Error & Alarm of Setup:System screen  
[Example use] > :SYSTem:BUZZer:EALarm 0

### :SYSTem:BUZZer:EALarm?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:BUZZer:EALarm.  
[Function] Queries the On/Off setting status of buzzer (error/alarm).  
[Screen] Common:Error & Alarm of Setup:System screen  
[Example use] > :SYSTem:BUZZer:EALarm?  
< 0

## SECTION 6 REMOTE COMMANDS

### :SYSTem:CODEc:SVOLume <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 8 (step 1)
- [Function] Sets the sound volume of speaker and headset. (for CODEC)
- [Screen] Common:Speaker & Headset vol. of Setup:System screen.
- [Example use] > :SYSTem:CODEc:SVOLume 1

### :SYSTem:CODEc:SVOLume?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:CODEc:SVOLume.
- [Function] Queries the sound volume setting status of speaker and headset. (for CODEC)
- [Screen] Common:Speaker & Headset vol. of Setup:System screen
- [Example use] > :SYSTem:CODEc:SVOLume?  
< 1

### :SYSTem:CODEc:SENable <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets the On/Off of speaker. (for CODEC).
- [Screen] Common:Speaker enable of Setup:System screen.
- [Example use] > :SYSTem:BUZZer:EALarm 0

### :SYSTem:CODEc:SENable?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:CODEc:SENable.
- [Function] Queries the On/Off setting status of speaker. (for CODEC)
- [Screen] Common:Speaker enable of Setup:System screen
- [Example use] > :SYSTem:CODEc:SENable?  
< 0

**:SYSTEm:CODEC:PCODE <pcode>**

[Parameter]      <pcode>=<CHARACTER PROGRAM DATA>  
                   ALAW    :A-law  
                   ULAW   :μ-law

[Function]     Sets code rule. (for CODEC).

[Screen]       Common:PCM Code of Setup:System screen

[Example use] > :SYSTEm:CODEC:PCODE ALAW

**:SYSTEm:CODEC:PCODE?**

[Parameter]      None

[Response]       <pcode>=<CHARACTER RESPONSE DATA>  
                   The same as :SYSTEm:CODEC:PCODE.

[Function]       Queries the setting status of code rule. (for CODEC)

[Screen]       Common:PCM Code of Setup:System screen

[Example use] > :SYSTEm:CODEC:PCODE?  
                   < ALAW

**:SYSTEm:PSAVe[:SET] <boolean>**

[Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0 :Off  
                   ON or 1 :On

[Function]       Sets the On/Off of the power save function.

[Screen]       Common:Power save of Setup:System screen

[Example use] > :SYSTEm:PSAVe 0

**:SYSTEm:PSAVe[:SET]?**

[Parameter]      None

[Response]       <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SYSTEm:PSAVe[ :SET].

[Function]       Queries the On/Off setting status of the power save function.

[Screen]       Common:Power save of Setup:System screen

[Example use] > :SYSTEm:PSAVe?  
                   < 0

**:SYSTEm:PSAVe:PERiod <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   1 to 99 (step 1)

[Function]       Sets the time (in minutes) before starting to execute the power save.

[Screen]       Common:Power save of Setup:System screen

[Example use] > :SYSTEm:PSAVe:PERiod 1

## SECTION 6 REMOTE COMMANDS

### :SYSTem:PSAVe:PERiod?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:PSAVe:PERiod.  
[Function] Queries the setting status of the time (in minutes) before starting execution of power saving.  
[Screen] Common:Power save of Setup:System screen.  
[Example use] > :SYSTem:PSAVe:PERiod?  
< 1

### :SYSTem:ECOut:BClock <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of counting bit errors in the clock slip.  
[Screen] Common:Bit EC with clock slip of Setup:System screen  
[Example use] > :SYSTem:ECOut:BClock 0

### :SYSTem:ECOut:BClock?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:ECOut:BClock.  
[Function] Queries the On/Off setting status of counting bit errors in the cross slip.  
[Screen] Common:Bit EC with clock slip of Setup:System screen  
[Example use] > :SYSTem:ECOut:BClock?  
< 0

### :SYSTem:ECOut:BPSL <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of counting bit errors during pattern synchronization loss.  
[Screen] Common:Bit EC with PSL of Setup:System screen  
[Example use] > :SYSTem:ECOut:BPSL 0

## 6.2 SYSTem Sub-system

### :SYSTem:ECount:BPSL?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:ECount:BPSL.  
[Function] Queries the On/Off setting status of counting bit errors during pattern synchronization loss.  
[Screen] Common:Bit EC with PSL of Setup:System screen  
[Example use] > :SYSTem:ECount:BPSL?  
< 0

### :SYSTem:FRElAy:PVC <pvc>

[Parameter] <pvc>=<CHARACTER PROGRAM DATA>  
OFF :Off  
ITUT :ITU-T Q.933 AnnexA  
[Function] Sets the way of the frame relay PVC confirmation procedure.  
[Screen] Common:PVC of Setup:System screen  
[Example use] > :SYSTem:FRElAy:PVC ITUT

### :SYSTem:FRElAy:PVC?

[Parameter] None  
[Response] <pvc>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:FRElAy:PVC.  
[Function] Queries the setting status of the frame relay PVC confirmation procedure.  
[Screen] Common:PVC of Setup:System screen.  
[Example use] > :SYSTem:FRElAy:PVC?  
< ITUT

### :SYSTem:INTerface:VXTCmos:TIMPedance <impedance>

[Parameter] <impedance>=<STRING PROGRAM DATA>  
"HIGH" :High  
"75" :75 Ω  
[Function] Sets the TTL/CMOS termination impedance.  
[Screen] Interface:V/X/TTL/CMOS:Term impedance of Setup:System screen  
[Example use] > :SYSTem:INTerface:VXTCmos:TIMPedance "HIGH"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:VXTCmos:TIMPedance?

[Parameter] None  
[Response] <impedance>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:VXTCmos:TIMPedance.  
[Function] Queries the setting status of the TTL/CMOS termination impedance.  
[Screen] Interface:V/X/TTL/CMOS:Term impedance of Setup:System screen  
[Example use] > :SYSTem:INTerface:VXTCmos:TIMPedance?  
< "HIGH"

### :SYSTem:INTerface:VXTCmos:DTCE <dtce>

[Parameter] <dtce>=<CHARACTER PROGRAM DATA>  
DTE :to DTE  
DCE :to DCE  
[Function] Sets the change either DTE or DCE as connection destination.  
[Screen] Interface:V/X/TTL/CMOS:to DTE/DCE of Setup:System screen  
[Example use] > :SYSTem:INTerface:VXTCmos:DTCE DTE

### :SYSTem:INTerface:VXTCmos:DTCE?

[Parameter] None  
[Response] <dtce>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:VXTCmos:DTCE.  
[Function] Queries the setting status of selecting either DTE or DCE as connection destination.  
[Screen] Interface:V/X/TTL/CMOS:to DTE/DCE of Setup:System screen  
[Example use] > :SYSTem:INTerface:VXTCmos:DTCE?  
< DTE

### :SYSTem:INTerface:K64:TINTer <tinter>

[Parameter] <tinter>=<CHARACTER PROGRAM DATA>  
CODirectional :Codirectional  
CClock :Centralized clock  
[Function] Sets type of the G.703 64k Interface.  
[Screen] Interface:G.703 64k>Type of Interface of Setup:System screen  
[Restriction] Exists the parameter depending on the sort of the interface unit.  
MU643000A : All parameters are available.  
MU643000B : CODirectional is unavailable.  
MU643000C : All parameters are available.  
[Example use] > :SYSTem:INTerface:K64:TINTer CODirectional

**:SYSTEm:INTerface:K64:TINTer?**

[Parameter] None  
 [Response] <dtce>=<CHARACTER RESPONSE DATA>  
     The same as :SYSTEm:INTerface:K64:TINTer.  
 [Function] Queries the setting status of the G.703 64k Interface: type.  
 [Screen] Interface:G.703 64k:Type of Interface of Setup:System screen  
 [Example use] > :SYSTEm:INTerface:K64:TINTer?  
     < COD

**:SYSTEm:INTerface:K192:TMODe <tmode>**

[Parameter] <tmode>=<CHARACTER PROGRAM DATA>  
     LEASe :Lease  
     PUBLic :Public  
 [Function] Sets the test mode of the I.430/I.430-a 192k.  
 [Screen] Interface:I.430/I.430-a 192k:Test mode of Setup:System screen  
 [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
 [Example use] > :SYSTEm:INTerface:K192:TMODe LEASe

**:SYSTEm:INTerface:K192:TMODe?**

[Parameter] None  
 [Response] <tmode>=<CHARACTER RESPONSE DATA>  
     The same as :SYSTEm:INTerface:K192:TMODe.  
 [Function] Queries the setting status of the I.430/I.430-a 192k test mode.  
 [Screen] Interface:I.430/I.430-a 192k:Test mode of Setup:System screen  
 [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
 [Example use] > :SYSTEm:INTerface:K192:TMODe?  
     < LEAS

**:SYSTEm:INTerface:K192:CONNnection <connection>**

[Parameter] <connection>=<CHARACTER PROGRAM DATA>  
     PP :P to P  
     PM :P to M  
 [Function] Sets connection type of I.430/I.430-a 192k.  
 [Screen] Interface:I.430/I.430-a 192k:Connection of Setup:System screen  
 [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
 [Example use] > :SYSTEm:INTerface:K192:CONNnection PP

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:K192:CONNnection?

[Parameter] None  
[Response] <connection>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:CONNnection.  
[Function] Queries the setting status of the connection type of I.430/I.430-a 192k.  
[Screen] Interface:I.430/I.430-a 192k:Connection of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:CONNnection?  
< PP

### :SYSTem:INTerface:K192:TEI <tei>

[Parameter] <tei>=<CHARACTER PROGRAM DATA>  
MANual :Manual  
AUTO :Auto  
[Function] Sets the I.430/I.430-a 192k TEI control.  
[Screen] Interface:I.430/I.430-a 192k:TEI of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
[Example use] > :SYSTem:INTerface:K192:TEI MANual

### :SYSTem:INTerface:K192:TEI?

[Parameter] None  
[Response] <tei>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:TEI.  
[Function] Queries the setting status of the I.430/I.430-a 192k TEI control.  
[Screen] Interface:I.430/I.430-a 192k:TEI of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:TEI?  
< MAN

**:SYSTEm:INTerface:K192:TVALue <tvalue>**

- [Parameter] <tvalue>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 63 (step 1)
- [Function] Sets the I.430/I.430-a 192k TEI value.
- [Screen] Interface:I.430/I.430-a 192k:TEI Value of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use] > :SYSTEm:INTerface:K192:TVALue 1

**:SYSTEm:INTerface:K192:TVALue?**

- [Parameter] None
- [Response] <tvalue>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTEm:INTerface:K192:TVALue.
- [Function] Queries the setting status of the I.430/I.430-a 192k TEI value.
- [Screen] Interface:I.430/I.430-a 192k:TEI Value of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTEm:INTerface:K192:TVALue?  
< 1

**:SYSTEm:INTerface:K192:TIMPedance <timpedance>**

- [Parameter] <timpedance>=<STRING PROGRAM DATA>  
"OPEN" :Open  
"50" :50 Ω  
"100" :100 Ω
- [Function] Sets the I.430/I.430-a 192k termination impedance.
- [Screen] Interface:I.430/I.430-a 192k:Term impedance of Setup:System screen
- [Example use] > :SYSTEm:INTerface:K192:TIMPedance "OPEN"

**:SYSTEm:INTerface:K192:TIMPedance?**

- [Parameter] None
- [Response] <timpedance>=<STRING RESPONSE DATA>  
The same as :SYSTEm:INTerface:K192:TIMPedance.
- [Function] Queries the setting status of the I.430/I.430-a 192k termination impedance.
- [Screen] Interface:I.430/I.430-a 192k:Term impedance of Setup:System screen
- [Example use] > :SYSTEm:INTerface:K192:TIMPedance?  
< "OPEN"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:K192:PFEed <pfeed>

[Parameter] <pfeed>=<CHARACTER PROGRAM DATA>  
NORMAL :Normal  
RESTricted :Restricted  
[Function] Sets the I.430/I.430-a 192k power feed threshold value.  
[Screen] Interface:I.430/I.430-a 192k:Power feed threshold of Setup:System screen  
[Example use] > :SYSTem:INTerface:K192:PFEed NORMAL

### :SYSTem:INTerface:K192:PFEed?

[Parameter] None  
[Response] <pfeed>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:PFEed.  
[Function] Queries the setting status of the I.430/I.430-a 192k power feed threshold value.  
[Screen] Interface:I.430/I.430-a 192k:Power feed threshold of Setup:System screen  
[Example use] > :SYSTem:INTerface:K192:PFEed?  
< NORM

### :SYSTem:INTerface:K192:CLOop <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the call loop of I.430/I.430-a 192k.  
[Screen] Interface:I.430/I.430-a 192k:Call loop of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
[Example use] > :SYSTem:INTerface:K192:CLOop OFF

### :SYSTem:INTerface:K192:CLOop?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:CLOop.  
[Function] Queries the setting status of the I.430/I.430-a 192k call loop  
[Screen] Interface:I.430/I.430-a 192k:Call loop of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:CLOop?  
< 0

## 6.2 SYSTem Sub-system

### :SYSTem:INTerface:K192:MFRame <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets the multiframe of I.430/I.430-a 192k.
- [Screen] Interface:I.430/I.430-a 192k:Call loop of Setup:System screen
- [Example use] > :SYSTem:INTerface:K192:CLOop ON

### :SYSTem:INTerface:K192:MFRame?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:CLOop.
- [Function] Queries the setting status of the I.430/I.430-a 192k multiframe.
- [Screen] Interface:I.430/I.430-a 192k:Call loop of Setup:System screen
- [Example use] > :SYSTem:INTerface:K192:CLOop?  
< 1

### :SYSTem:INTerface:K192:IDATa:RNUMber <rnumber>

- [Parameter] <rnumber>=<STRING PROGRAM DATA>  
"Remote number"  
Maximum 15 digits. 0 to 9, \*, # and -.  
If there is no number of even one digit,  
the invalid state "\*\*\*\*\*" is returned.
- [Function] Sets the I.430/I.430-a 192k remote number (for test data).
- [Screen] Interface:I.430/I.430-a 192k:ISDN Data:Remote Number of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use] > :SYSTem:INTerface:K192:IDATa:RNUMber "0462-21-1111"

## SECTION 6 REMOTE COMMANDS

### **:SYSTem:INTerface:K192:IDATa:RNUMber?**

[Parameter]	None
[Response]	<rnumber>=<STRING RESPONSE DATA> The same as :SYSTem:INTerface:K192:IDATa:RNUMber.
[Function]	Queries the setting status of the I.430/I.430-a 192k remote number (for test data).
[Screen]	Interface:I.430/I.430-a 192k:ISDN Data:Remote Number of Setup:System screen.
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:K192:IDATa:RNUMber? <"0462-21-1111"

### **:SYSTem:INTerface:K192:IDATa:RSUBaddress <rsubadd>**

[Parameter]	<rsubadd>=<STRING PROGRAM DATA> "Remote subaddress" Maximum 19 digits. 0 to 9, * and #. If there is no number of even one digit, the invalid state "*****" is returned.
[Function]	Sets the I.430/I.430-a 192k remote subaddress (for test data).
[Screen]	Interface:I.430/I.430-a 192k:ISDN Data:Remote Subaddress of Setup: System screen.
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error)
[Example use]	> :SYSTem:INTerface:K192:IDATa:RSUBaddress "1234"

### **:SYSTem:INTerface:K192:IDATa:RSUBaddress?**

[Parameter]	None
[Response]	<rsubadd>=<STRING RESPONSE DATA> The same as :SYSTem:INTerface:K192:IDATa:RSUBaddress.
[Function]	Queries the setting status of the I.430/I.430-a 192k remote subaddress (for test data).
[Screen]	Interface:I.430/I.430-a 192k:ISDN Data:Remote Subaddress of Setup: System screen.
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:K192:IDATa:RSUBaddress? <"1234"

**:SYSTEm:INTerface:K192:IDATA:RCHannel <rchannel>**

- [Parameter]      <rchannel>=<CHARACTER PROGRAM DATA>  
                   ANY     :Any  
                   B1     :B1  
                   B2     :B2
- [Function]     Sets the I.430/I.430-a 192k calling channel (for test data).
- [Screen]       Interface:I.430/I.430-a 192k:ISDN Data:Remote Channel of Setup:System screen.
- [Restriction]   If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use]   > :SYSTEm:INTerface:K192:IDATA:RCHannel ANY

**:SYSTEm:INTerface:K192:IDATA:RCHannel?**

- [Parameter]      None
- [Response]       <rchannel>=<CHARACTER RESPONSE DATA>  
                   The same as :SYSTEm:INTerface:K192:IDATA:RCHannel.
- [Function]       Queries the setting status of the I.430/I.430-a 192k calling channel (for test data).
- [Screen]       Interface:I.430/I.430-a 192k:ISDN Data:Remote Channel of Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use]   > :SYSTEm:INTerface:K192:IDATA:RCHannel?  
                   < ANY

**:SYSTEm:INTerface:K192:IDATA:LSUBaddress <lsubadd>**

- [Parameter]      <lsubadd>=<STRING PROGRAM DATA>  
                   "Local Subaddress for call judgement"  
                   Maximum 19 digits. 0 to 9.  
                   If there is no number of even one digit, the invalid state "\*\*\*\*\*" is set.
- [Function]       Sets the I.430/I.430-a 192k local subaddress for call judgement (for test data).
- [Screen]       Interface:I.430/I.430-a 192k:ISDN Data:Local Subaddress of Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use]   > :SYSTEm:INTerface:K192:IDATA:LSUBaddress "1234"

## SECTION 6 REMOTE COMMANDS

### **:SYSTem:INTerface:K192:IDATa:LSUBaddress?**

- [Parameter] None  
[Response] <lsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:IDATa:LSUBaddress.  
[Function] Queries the setting status of the I.430/I.430-a 192k local subaddress for call judgement (for test data).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Data:Local Subaddress of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:IDATa:LSUBaddress?  
<"1234"

### **:SYSTem:INTerface:K192:IDATa:LChannel <lchannel>**

- [Parameter] <lchannel>=<CHARACTER PROGRAM DATA>  
ANY :Any  
B1 :B1  
B2 :B2  
NONE :None  
[Function] Sets the I.430/I.430-a 192k local channel for call judgement (for test data).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Data:Local Channel of Setup:System screen.  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
[Example use] > :SYSTem:INTerface:K192:IDATa:LChannel ANY

### **:SYSTem:INTerface:K192:IDATa:LChannel?**

- [Parameter] None  
[Response] <lchannel>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:IDATa:LChannel.  
[Function] Queries the setting status of the I.430/I.430-a 192k local channel for call judgement (for test data).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Data:Local Channel of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:IDATa:LChannel?  
< ANY

## 6.2 SYSTEm Sub-system

### :SYSTEm:INTerface:K192:IVoice:RNUMber <rnumber>

- [Parameter]    <rnumber>=<STRING PROGRAM DATA>  
                  "Remote number"  
                  Maximum 15 digits. 0 to 9, \*, # and -.  
                  If there is no number or even one digit, the invalid state  
                  "\*\*\*\*\*" is returned.
- [Function]    Sets the I.430/I.430-a 192k remote number (for voice call).
- [Screen]      Interface:I.430/I.430-a 192k:ISDN Voice:Remote Number of Setup:System  
                  screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this  
                  command. (execution error)
- [Example use] > :SYSTEm:INTerface:K192:IVoice:RNUMber "0462-21-1111"

### :SYSTEm:INTerface:K192:IVoice:RNUMber?

- [Parameter]    None
- [Response]     <rnumber>=<STRING RESPONSE DATA>  
                  The same as :SYSTEm:INTerface:K192:IVoice:RNUMber.
- [Function]    Queries the setting status of the I.430/I.430-a 192k remote number (for voice  
                  call).
- [Screen]      Interface:I.430/I.430-a 192k:ISDN Voice:Remote Number of Setup:System  
                  screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs  
                  and execution error is returned.
- [Example use] > :SYSTEm:INTerface:K192:IVoice:RNUMber?  
                  <"0462-21-1111"

### :SYSTEm:INTerface:K192:IVoice:RSUBaddress <rsubadd>

- [Parameter]    <rsubadd>=<STRING PROGRAM DATA>  
                  "Remote subaddress"  
                  Maximum 19 digits. 0 to 9, \* and #.  
                  If there is no number or even one digit, the invalid state  
                  "\*\*\*\*\*" is returned.
- [Function]    Sets the I.430/I.430-a 192k remote subaddress (for voice call).
- [Screen]      Interface:I.430/I.430-a 192k:ISDN Voice:Remote Subaddress of  
                  Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this  
                  command. (execution error)
- [Example use] > :SYSTEm:INTerface:K192:IVoice:RSUBaddress "1234"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:K192:IVoice:RSUBaddress?

- [Parameter] None  
[Response] <rsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:IVoice:RSUBaddress.  
[Function] Queries the setting status of the I.430/I.430-a 192k remote subaddress (for voice call).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Remote Subaddress of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:IVoice:RSUBaddress?  
< "1234"

### :SYSTem:INTerface:K192:IVoice:RCHannel <rchannel>

- [Parameter] <rchannel>=<CHARACTER PROGRAM DATA>  
ANY :Any  
B1 :B1  
B2 :B2  
[Function] Sets the I.430/I.430-a 192k calling channel (for voice call).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Remote Channel of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
[Example use] > :SYSTem:INTerface:K192:IVoice:RCHannel ANY

### :SYSTem:INTerface:K192:IVoice:RCHannel?

- [Parameter] None  
[Response] <rchannel>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:K192:IVoice:RCHannel.  
[Function] Queries the setting status of the I.430/I.430-a 192k calling channel (for voice call).  
[Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Remote Channel of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:K192:IVoice:RCHannel?  
< ANY

**:SYSTEm:INTerface:K192:IVOice:LSUBaddress <lsubadd>**

- [Parameter] <lsubadd>=<STRING PROGRAM DATA>  
                   "Local Subaddress for call judgement"  
                   Maximum 19 digits. 0 to 9.  
                   If there is no number of even one digit, the invalid state  
                   "\*\*\*\*\*" is returned.
- [Function] Sets the I.430/I.430-a 192k local subaddress for call judgement (for voice call).
- [Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use] > :SYSTEm:INTerface:K192:IVOice:LSUBaddress "1234"

**:SYSTEm:INTerface:K192:IVOice:LSUBaddress?**

- [Parameter] None
- [Response] <lsubadd>=<STRING RESPONSE DATA>  
                   The same as :SYSTEm:INTerface:K192:IVOice:LSUBaddress.
- [Function] Queries the setting status of the I.430/I.430-a 192k local subaddress for call judgement (for voice call).
- [Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTEm:INTerface:K192:IVOice:LSUBaddress?  
                   <"1234">

**:SYSTEm:INTerface:K192:IVOice:LChannel <lchannel>**

- [Parameter] <lchannel>=<CHARACTER PROGRAM DATA>  
                   ANY       :Any  
                   B1       :B1  
                   B2       :B2  
                   NONE     :None
- [Function] Sets the I.430/I.430-a 192k local channel for call judgement (for voice call).
- [Screen] Interface:I.430/I.430-a 192k:ISDN Voice:Local Channel of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use] > :SYSTEm:INTerface:K192:IVOice:LChannel ANY

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:K192:IVoice:LCHannel?

[Parameter]	None
[Response]	<lchannel>=<CHARACTER RESPONSE DATA> The same as :SYSTem:INTerface:K192:IVoice:LCHannel.
[Function]	Queries the setting status of the I.430/I.430-a 192k local channel for call judgement (for voice call).
[Screen]	Interface:I.430/I.430-a 192k:ISDN Voice:Local Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:K192:IVoice:LCHannel? < ANY

### :SYSTem:INTerface:M1\_5:TMODe <tmode>

[Parameter]	<tmode>=<CHARACTER PROGRAM DATA> LEASe :Lease PUBLIC :Public
[Function]	Sets the test mode of G.704/I.431 1.544M.
[Screen]	Interface:G.704/I.431 1.544M:Test mode of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error) Exists some interface unit which can not perform this command. (execution error) MU643000A : Can perform this command. MU643000B/K : Can perform this command. MU643000C : Can not perform this command.
[Example use]	> :SYSTem:INTerface:M1_5:TMODe LEASe

### :SYSTem:INTerface:M1\_5:TMODe?

[Parameter]	None
[Response]	<tmode>=<CHARACTER RESPONSE DATA> The same as :SYSTem:INTerface:M1_5:TMODe.
[Function]	Queries the setting status of the G.704/I.431 1.544M test mode.
[Screen]	Interface:G.704/I.431 1.544M:Test mode of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:M1_5:TMODe? < LEAS

## 6.2 SYSTem Sub-system

### **:SYSTem:INTerface:M1\_5:CLOop <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the call loop of G.704/I.431 1.544M.

[Screen] Interface:G.704/I.431 1.544M:Call loop of Setup:System screen

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.

[Example use] > :SYSTem:INTerface:M1\_5:CLOop OFF

### **:SYSTem:INTerface:M1\_5:CLOop?**

[Parameter] None

[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SYSTem:INTerface:M1\_5:CLOop.

[Function] Queries the setting status of the G.704/I.431 1.544M call loop.

[Screen] Interface:G.704/I.431 1.544M:Call loop of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTem:INTerface:M1\_5:CLOop?  
< 0

## SECTION 6 REMOTE COMMANDS

**:SYSTem:INTerface:M1\_5:IDATa:RNUMber <rnumber>**

- [Parameter]    <rnumber>=<STRING PROGRAM DATA>  
                  "Remote number"  
                  Maximum 15 digits. 0 to 9, \*, # and -.  
                  If there is no number of even one digit, the invalid state  
                  "\*\*\*\*\*" is returned.
- [Function]    Sets the G.704/I.431 1.544M remote number (for test data).
- [Screen]      Interface:G.704/I.431 1.544M:ISDN Data:Remote Number of Setup:System  
                  screen
- [Restriction]   If the calling/being-called option is not installed, cannot perform this  
                  command. (execution error)  
                  Exists some interface unit which can not perform this command.  
                  (execution error)  
                  MU643000A : Can perform this command.  
                  MU643000B/K : Can perform this command.  
                  MU643000C : Can not perform this command.
- [Example use]   > :SYSTem:INTerface:M1\_5:IDATa:RNUMber "0462-21-1111"

**:SYSTem:INTerface:M1\_5:IDATa:RNUMber?**

- [Parameter]    None
- [Response]     <rnumber>=<STRING RESPONSE DATA>  
                  The same as :SYSTem:INTerface:M1\_5:IDATa:RNUMber.
- [Function]    Queries the setting status of the G.704/I.431 1.544M remote number (for  
                  test data).
- [Screen]      Interface:G.704/I.431 1.544M:ISDN Data:Remote Number of Setup:System  
                  screen
- [Restriction]   If the calling/being-called option is not installed, no response data occurs  
                  and execution error is returned.
- [Example use]   > :SYSTem:INTerface:M1\_5:IDATa:RNUMber?  
                  <"0462-21-1111"

## 6.2 SYSTem Sub-system

### :SYSTem:INTerface:M1\_5:IDATA:RSUBaddress <rsubadd>

- [Parameter] <rsubadd>=<STRING PROGRAM DATA>  
"Remote subaddress"  
Maximum 19 digits. 0 to 9, \* and #.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.
- [Function] Sets the G.704/I.431 1.544M remote subaddress (for test data).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Data:Remote Subaddress of  
Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.
- [Example use] > :SYSTem:INTerface:M1\_5:IDATA:RSUBaddress "1234"

### :SYSTem:INTerface:M1\_5:IDATA:RSUBaddress?

- [Parameter] None
- [Response] <rsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M1\_5:IDATA:RSUBaddress.
- [Function] Queries the setting status of the G.704/I.431 1.544M remote subaddress (for test data).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Data:Remote Subaddress of  
Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M1\_5:IDATA:RSUBaddress?  
<"1234"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M1\_5:IDATA:RCHannel <rchannel>

[Parameter] <rchannel>=<CHARACTER PROGRAM DATA>

ANY	:Any	B13	:B13
B1	:B1	B14	:B14
B2	:B2	B15	:B15
B3	:B3	B16	:B16
B4	:B4	B17	:B17
B5	:B5	B18	:B18
B6	:B6	B19	:B19
B7	:B7	B20	:B20
B8	:B8	B21	:B21
B9	:B9	B22	:B22
B10	:B10	B23	:B23
B11	:B11	H0	:H0
B12	:B12		

[Function] Sets the G.704/I.431 1.544M calling channel (for test data).

[Screen] Interface:G.704/I.431 1.544M:ISDN Data:Remote Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)

Exists some interface unit which can not perform this command.  
(execution error)

MU643000A : Can perform this command.

MU643000B/K : Can perform this command.

MU643000C : Can not perform this command.

[Example use] > :SYSTem:INTerface:M1\_5:IDATA:RCHannel ANY

### :SYSTem:INTerface:M1\_5:IDATA:RCHannel?

[Parameter] None

[Response] <rchannel>=<CHARACTER RESPONSE DATA>

The same as :SYSTem:INTerface:M1\_5:IDATA:RCHannel.

[Function] Queries the setting status of the G.704/I.431 1.544M calling channel (for test data).

[Screen] Interface:G.704/I.431 1.544M:ISDN Data:Remote Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTem:INTerface:M1\_5:IDATA:RCHannel?  
< ANY

**:SYSTEm:INTerface:M1\_5:IDATa:RHChannel0 <rchannel0>**

- [Parameter]      <rchannel0>=<STRING PROGRAM DATA>  
                   "010203040506" :01-02-03-04-05-06  
                   "070809101112" :07-08-09-10-11-12  
                   "131415161718" :13-14-15-16-17-18
- [Function]     Sets the G.704/I.431 1.544M calling channel (H0 channel, for test data).
- [Screen]       Interface:G.704/I.431 1.544M:ISDN Data:Remote H0 Channel of  
                   Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, cannot perform this  
                   command. (execution error)  
                   Exists some interface unit which can not perform this command.  
                   (execution error)  
                   MU643000A : Can perform this command.  
                   MU643000B/K : Can perform this command.  
                   MU643000C : Can not perform this command.
- [Example use]   > :SYSTEm:INTerface:M1\_5:IDATa:RHChannel0 "010203040506"

**:SYSTEm:INTerface:M1\_5:IDATa:RHChannel0?**

- [Parameter]      None
- [Response]       <rchannel0>=<STRING RESPONSE DATA>  
                   The same as :SYSTEm:INTerface:M1\_5:IDATa:RHChannel0.
- [Function]       Queries the setting status of the G.704/I.431 1.544M calling channel (H0  
                   channel, for test data).
- [Screen]       Interface:G.704/I.431 1.544M:ISDN Data:Remote H0 Channel of  
                   Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, no response data occurs  
                   and execution error is returned.
- [Example use]   > :SYSTEm:INTerface:M1\_5:IDATa:RHChannel0?  
                   < "010203040506"

## SECTION 6 REMOTE COMMANDS

### **:SYSTem:INTerface:M1\_5:IDATa:LSUBaddress <lsubadd>**

- [Parameter]      <lsubadd>=<STRING PROGRAM DATA>  
                      "Local Subaddress for call judgement"  
                      Maximum 19 digits. 0 to 9.  
                      If there is no number of even one digit, the invalid state  
                      "\*\*\*\*\*" is returned.
- [Function]     Sets the G.704/I.431 1.544M local subaddress for call judgement (for test data).
- [Screen]       Interface:G.704/I.431 1.544M:ISDN Data:Local Subaddress of Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, cannot perform this command. (execution error)  
                      Exists some interface unit which can not perform this command. (execution error)  
                      MU643000A : Can perform this command.  
                      MU643000B/K : Can perform this command.  
                      MU643000C : Can not perform this command.
- [Example use]   > :SYSTem:INTerface:M1\_5:IDATa:LSUBaddress "1234"

### **:SYSTem:INTerface:M1\_5:IDATa:LSUBaddress?**

- [Parameter]      None
- [Response]       <lsubadd>=<STRING RESPONSE DATA>  
                      The same as :SYSTem:INTerface:M1\_5:IDATa:LSUBaddress.
- [Function]       Queries the setting status of the G.704/I.431 1.544M local subaddress for call judgement (for test data).
- [Screen]       Interface:G.704/I.431 1.544M:ISDN Data:Local Subaddress of Setup:System screen
- [Restriction]   If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use]   > :SYSTem:INTerface:M1\_5:IDATa:LSUBaddress?  
                      <"1234">

## 6.2 SYSTEm Sub-system

### :SYSTEm:INTerface:M1\_5:IDATA:LCHannel <lchannel>

[Parameter] <lchannel>=<CHARACTER PROGRAM DATA>

ANY	:Any	B13	:B13
B1	:B1	B14	:B14
B2	:B2	B15	:B15
B3	:B3	B16	:B16
B4	:B4	B17	:B17
B5	:B5	B18	:B18
B6	:B6	B19	:B19
B7	:B7	B20	:B20
B8	:B8	B21	:B21
B9	:B9	B22	:B22
B10	:B10	B23	:B23
B11	:B11	H0	:H0
B12	:B12	NONE	:None

[Function] Sets the G.704/I.431 1.544M local channel for call judgement (for test data).

[Screen] Interface:G.704/I.431 1.544M:ISDN Data:Local Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)

Exists some interface unit which can not perform this command. (execution error)

MU643000A : Can perform this command.

MU643000B/K : Can perform this command.

MU643000C : Can not perform this command.

[Example use] > :SYSTEm:INTerface:M1\_5:IDATA:LCHannel ANY

### :SYSTEm:INTerface:M1\_5:IDATA:LCHannel?

[Parameter] None

[Response] <lchannel>=<CHARACTER RESPONSE DATA>

The same as :SYSTEm:INTerface:M1\_5:IDATA:LCHannel.

[Function] Queries the setting status of the G.704/I.431 1.544M local channel for call judgement (for test data).

[Screen] Interface:G.704/I.431 1.544M:ISDN Data:Local Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTEm:INTerface:M1\_5:IDATA:LCHannel?  
< ANY

## SECTION 6 REMOTE COMMANDS

**:SYSTem:INTerface:M1\_5:IDATa:LHChannel0 <lchannel0>**

- [Parameter] <lchannel0>=<STRING PROGRAM DATA>  
"010203040506" :01-02-03-04-05-06  
"070809101112" :07-08-09-10-11-12  
"131415161718" :13-14-15-16-17-18
- [Function] Sets the G.704/I.431 1.544M local channel for call judgement (H0 channel, for test data).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Data:Local H0 Channel of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.
- [Example use] > :SYSTem:INTerface:M1\_5:IDATa:LHChannel0 "010203040506"

**:SYSTem:INTerface:M1\_5:IDATa:LHChannel0?**

- [Parameter] None
- [Response] <lchannel0>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M1\_5:IDATa:LHChannel0.
- [Function] Queries the setting status of the G.704/I.431 1.544M local channel for call judgement (H0 channel, for test data).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Data:Local H0 Channel of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M1\_5:IDATa:LHChannel0?  
< "010203040506"

## 6.2 SYSTEm Sub-system

### :SYSTEm:INTerface:M1\_5:IVOice:RNUMber <rnumber>

- [Parameter]      <rnumber>=<STRING PROGRAM DATA>  
                      "Remote number"  
                      Maximum 15 digits. 0 to 9, \*, # and -.  
                      If there is no number or even one digit, the invalid state  
                      "\*\*\*\*\*" is returned.
- [Function]        Sets the G.704/I.431 1.544M remote number (for voice call).
- [Screen]           Interface:G.704/I.431 1.544M:ISDN Voice:Remote Number of Setup:System  
                      screen
- [Restriction]     If the calling/being-called option is not installed, cannot perform this  
                      command. (execution error)  
                      Exists some interface unit which can not perform this command.  
                      (execution error)  
                      MU643000A : Can perform this command.  
                      MU643000B/K : Can perform this command.  
                      MU643000C : Can not perform this command.
- [Example use]     > :SYSTEm:INTerface:M1\_5:IVOice:RNUMber "0462-21-1111"

### :SYSTEm:INTerface:M1\_5:IVOice:RNUMber?

- [Parameter]       None
- [Response]        <rnumber>=<STRING RESPONSE DATA>  
                      The same as :SYSTEm:INTerface:M1\_5:IVOice:RNUMber.
- [Function]        Queries the setting status of the G.704/I.431 1.544M remote number (for  
                      voice call).
- [Screen]           Interface:G.704/I.431 1.544M:ISDN Voice:Remote Number of Setup:System  
                      screen
- [Restriction]     If the calling/being-called option is not installed, no response data occurs  
                      and execution error is returned.
- [Example use]     > :SYSTEm:INTerface:M1\_5:IVOice:RNUMber?  
                      <"0462-21-1111"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M1\_5:IVoice:RSUBaddress <rsubadd>

- [Parameter] <rsubadd>=<STRING PROGRAM DATA>  
"Remote subaddress"  
Maximum 19 digits. 0 to 9, \* and #.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.
- [Function] Sets the G.704/I.431 1.544M remote subaddress (for voice call).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Remote Subaddress of  
Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this  
command. (execution error)  
Exists some interface unit which can not perform this command.  
(execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.
- [Example use] > :SYSTem:INTerface:M1\_5:IVoice:RSUBaddress "1234"

### :SYSTem:INTerface:M1\_5:IVoice:RSUBaddress?

- [Parameter] None
- [Response] <rsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M1\_5:IVoice:RSUBaddress.
- [Function] Queries the setting status of the G.704/I.431 1.544M remote subaddress (for  
voice call).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Remote Subaddress of  
Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs  
and execution error is returned.
- [Example use] > :SYSTem:INTerface:M1\_5:IVoice:RSUBaddress?  
< "1234"

## 6.2 SYSTem Sub-system

### :SYSTem:INTerface:M1\_5:IVOice:RCHannel <rchannel>

[Parameter]	<rchannel>=<CHARACTER PROGRAM DATA>
	ANY :Any B13 :B13
	B1 :B1 B14 :B14
	B2 :B2 B15 :B15
	B3 :B3 B16 :B16
	B4 :B4 B17 :B17
	B5 :B5 B18 :B18
	B6 :B6 B19 :B19
	B7 :B7 B20 :B20
	B8 :B8 B21 :B21
	B9 :B9 B22 :B22
	B10 :B10 B23 :B23
	B11 :B11
	B12 :B12
[Function]	Sets the G.704/I.431 1.544M calling channel (for voice call).
[Screen]	Interface:G.704/I.431 1.544M:ISDN Voice:Remote Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error) Exists some interface unit which can not perform this command. (execution error)
	MU643000A : Can perform this command.
	MU643000B/K : Can perform this command.
	MU643000C : Can not perform this command.
[Example use]	> :SYSTem:INTerface:M1_5:IVOice:RCHannel ANY

### :SYSTem:INTerface:M1\_5:IVOice:RCHannel?

[Parameter]	None
[Response]	<rchannel>=<CHARACTER RESPONSE DATA>
	The same as :SYSTem:INTerface:M1_5:IVOice:RCHannel.
[Function]	Queries the setting status of the G.704/I.431 1.544M calling channel (for voice call).
[Screen]	Interface:G.704/I.431 1.544M:ISDN Voice:Remote Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:M1_5:IVOice:RCHannel? <ANY

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M1\_5:IVoice:LSUBaddress <lsubadd>

- [Parameter] <lsubadd>=<STRING PROGRAM DATA>  
"Local Subaddress for call judgement"  
Maximum 19 digits. 0 to 9.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.
- [Function] Sets the G.704/I.431 1.544M local subaddress for call judgement (for voice call).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.
- [Example use] > :SYSTem:INTerface:M1\_5:IVoice:LSUBaddress "1234"

### :SYSTem:INTerface:M1\_5:IVoice:LSUBaddress?

- [Parameter] None
- [Response] <lsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M1\_5:IVoice:LSUBaddress
- [Function] Queries the setting status of the G.704/I.431 1.544M local subaddress for call judgement (for voice call).
- [Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M1\_5:IVoice:LSUBaddress?  
< "1234"

## 6.2 SYSTem Sub-system

### :SYSTem:INTerface:M1\_5:IVoice:LCHannel <lchannel>

[Parameter] <lchannel>=<CHARACTER PROGRAM DATA>

ANY	:Any	B13	:B13
B1	:B1	B14	:B14
B2	:B2	B15	:B15
B3	:B3	B16	:B16
B4	:B4	B17	:B17
B5	:B5	B18	:B18
B6	:B6	B19	:B19
B7	:B7	B20	:B20
B8	:B8	B21	:B21
B9	:B9	B22	:B22
B10	:B10	B23	:B23
B11	:B11	NONE	:None
B12	:B12		

[Function] Sets the G.704/I.431 1.544M local channel for call judgement (for voice call).

[Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Local Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)

Exists some interface unit which can not perform this command. (execution error)

MU643000A : Can perform this command.

MU643000B/K : Can perform this command.

MU643000C : Can not perform this command.

[Example use] > :SYSTem:INTerface:M1\_5:IVoice:LCHannel ANY

### :SYSTem:INTerface:M1\_5:IVoice:LCHannel?

[Parameter] None

[Response] <lchannel>=<CHARACTER RESPONSE DATA>

The same as :SYSTem:INTerface:M1\_5:IVoice:LCHannel.

[Function] Queries the setting status of the G.704/I.431 1.544M local channel for call judgement (for voice call).

[Screen] Interface:G.704/I.431 1.544M:ISDN Voice:Local Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTem:INTerface:M1\_5:IVoice:LCHannel?  
< ANY

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:TMODe <tmode>

- [Parameter] <tmode>=<CHARACTER PROGRAM DATA>  
LEASe :Lease  
PUBLic :Public
- [Function] Sets the G.704/I.431 2.048M test mode.
- [Screen] Interface:G.704/I.431 2.048M:Test mode of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
MU643000C : Can perform this command.
- [Example use] > :SYSTem:INTerface:M2:TMODe LEASe

### :SYSTem:INTerface:M2:TMODe?

- [Parameter] None
- [Response] <tmode>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:M2:TMODe.
- [Function] Queries the setting status of the G.704/I.431 2.048M test mode.
- [Screen] Interface:G.704/I.431 2.048M:Test mode of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M2:TMODe?  
< LEAS

### :SYSTem:INTerface:M2:IMPedance <impedance>

- [Parameter] <impedance>=<STRING PROGRAM DATA>  
"75" :75 Ω  
"120" :120 Ω
- [Function] Sets the G.704/I.431 2.048M input/output impedance.
- [Screen] Interface:G.704/I.431 2.048M:Impedance of Setup:System screen
- [Example use] > :SYSTem:INTerface:M2:IMPedance "75"

**:SYSTEm:INTerface:M2:IMPedance?**

[Parameter] None  
 [Response] <impedance>=<STRING RESPONSE DATA>  
     The same as :SYSTEm:INTerface:M2:IMPedance.  
 [Function] Queries the setting status of the G.704/I.431 2.048M input/output impedance.  
 [Screen] Interface:G.704/I.431 2.048M:Impedance of Setup:System screen  
 [Restriction] The same as :SYSTEm:INTerface:M2:IMPedance.  
 [Example use] > :SYSTEm:INTerface:M2:IMPedance?  
     <"75"

**:SYSTEm:INTerface:M2:CLOop <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the G.704/I.431 2.048M call loop.  
 [Screen] Interface:G.704/I.431 2.048M:Call loop of Setup:System screen  
 [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
     Exists some interface unit which can not perform this command. (execution error)  
         MU643000A : Can perform this command.  
         MU643000B/K : Can not perform this command.  
         MU643000C : Can perform this command.  
 [Example use] > :SYSTEm:INTerface:M2:CLOop OFF

**:SYSTEm:INTerface:M2:CLOop?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SYSTEm:INTerface:M2:CLOop.  
 [Function] Queries the setting status of the G.704/I.431 2.048M call loop.  
 [Screen] Interface:G.704/I.431 2.048M:Call loop of Setup:System screen  
 [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
 [Example use] > :SYSTEm:INTerface:M2:CLOop?  
     < 0

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:IDATa:RNUMber <rnumber>

- [Parameter] <rnumber>=<STRING PROGRAM DATA>  
"Remote number"  
Maximum 15 digits. 0 to 9, \*, # and -.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.
- [Function] Sets the G.704/I.431 2.048M remote number (for test data).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Data:Remote Number of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command.  
(execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
MU643000C : Can perform this command.
- [Example use] > :SYSTem:INTerface:M2:IDATa:RNUMber "0462-21-1111"

### :SYSTem:INTerface:M2:IDATa:RNUMber?

- [Parameter] None
- [Response] <rnumber>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M2:IDATa:RNUMber.
- [Function] Queries the setting status of the G.704/I.431 2.048M remote number (for test data).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Data:Remote Number of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M2:IDATa:RNUMber?  
< "0462-21-1111"

**:SYSTem:INTerface:M2:IDATA:RSUBaddress <rsubadd>**

- [Parameter]      <rsubadd>=<STRING PROGRAM DATA>  
                   "Remote subaddress"  
                   Maximum 19 digits. 0 to 9, \* and #.  
                   If there is no number of even one digit, the invalid state  
                   "\*\*\*\*\*" is returned.
- [Function]       Sets the G.704/I.431 2.048M remote subaddress (for test data).
- [Screen]          Interface:G.704/I.431 2.048M:ISDN Data:Remote Subaddress of  
                   Setup:System screen
- [Restriction]     If the calling/being-called option is not installed, cannot perform this  
                   command. (execution error)  
                   Exists some interface unit which can not perform this command.  
                   (execution error)  
                   MU643000A : Can perform this command.  
                   MU643000B/K : Can not perform this command.  
                   MU643000C : Can perform this command.
- [Example use]    > :SYSTem:INTerface:M2:IDATA:RSUBaddress "1234"

**:SYSTem:INTerface:M2:IDATA:RSUBaddress?**

- [Parameter]       None
- [Response]       <rsubadd>=<STRING RESPONSE DATA>  
                   The same as :SYSTem:INTerface:M2:IDATA:RSUBaddress.
- [Function]       Queries the setting status of the G.704/I.431 2.048M remote subaddress (for  
                   test data).
- [Screen]          Interface:G.704/I.431 2.048M:ISDN Data:Remote Subaddress of  
                   Setup:System screen
- [Restriction]     If the calling/being-called option is not installed, no response data occurs  
                   and execution error is returned.
- [Example use]    > :SYSTem:INTerface:M2:IDATA:RSUBaddress?  
                   <"1234">

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:IDATA:RCHannel <rchannel>

[Parameter] <rchannel>=<CHARACTER PROGRAM DATA>

ANY	:Any	B17	:B17
B1	:B1	B18	:B18
B2	:B2	B19	:B19
B3	:B3	B20	:B20
B4	:B4	B21	:B21
B5	:B5	B22	:B22
B6	:B6	B23	:B23
B7	:B7	B24	:B24
B8	:B8	B25	:B25
B9	:B9	B26	:B26
B10	:B10	B27	:B27
B11	:B11	B28	:B28
B12	:B12	B29	:B29
B13	:B13	B30	:B30
B14	:B14	B31	:B31
B15	:B15	H0	:H0

[Function] Sets the G.704/I.431 2.048M calling channel (for test data).

[Screen] Interface:G.704/I.431 2.048M:ISDN Data:Remote Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)

Exists some interface unit which can not perform this command. (execution error)

MU643000A : Can perform this command.

MU643000B/K : Can not perform this command.

MU643000C : Can perform this command.

[Example use] > :SYSTem:INTerface:M2:IDATA:RCHannel ANY

### :SYSTem:INTerface:M2:IDATA:RCHannel?

[Parameter] None

[Response] <rchannel>=<CHARACTER RESPONSE DATA>

The same as :SYSTem:INTerface:M2:IDATA:RCHannel.

[Function] Queries the setting status of the G.704/I.431 2.048M calling channel (for test data).

[Screen] Interface:G.704/I.431 2.048M:ISDN Data:Remote Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTem:INTerface:M2:IDATA:RCHannel?  
< ANY

## 6.2 SYSTem Sub-system

### :SYSTem:INTerface:M2:IDATA:RHChannel0 <rhchannel0>

[Parameter]	<rhchannel0>=<STRING PROGRAM DATA>
	"010203171819" :01-02-03 17-18-19
	"040506202122" :04-05-06 20-21-22
	"070809232425" :07-08-09 23-24-25
	"101112262728" :10-11-12 26-27-28
	"131415293031" :13-14-15 29-30-31
	"010711172327" :01-07-11 17-23-27
	"030915192531" :03-09-15 19-25-31
	"040812202428" :04-08-12 20-24-28
	"051013212629" :05-10-13 21-26-29
	"020614182230" :02-06-14 18-22-30
[Function]	Sets the G.704/I.431 2.048M calling channel (H0 channel, for test data).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Data:Remote H0 Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error) Exists some interface unit which can not perform this command. (execution error)
	MU643000A : Can perform this command. MU643000B/K : Can not perform this command. MU643000C : Can perform this command.
[Example use]	> :SYSTem:INTerface:M2:IDATA:RHChannel0 "010203171819"

### :SYSTem:INTerface:M2:IDATA:RHChannel0?

[Parameter]	None
[Response]	<rhchannel0>=<STRING RESPONSE DATA>
	The same as :SYSTem:INTerface:M2:IDATA:RHChannel0.
[Function]	Queries the setting status of the G.704/I.431 2.048M calling channel (H0 channel, for test data).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Data:Remote H0 Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:M2:IDATA:RHChannel0? <"010203171819"

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:IDATA:LSUBaddress <lsubadd>

- [Parameter] <lsubadd>=<STRING PROGRAM DATA>  
"Local Subaddress for call judgement"  
Maximum 19 digits. 0 to 9.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.
- [Function] Sets the G.704/I.431 2.048M local subaddress for call judgement (for test data).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Data:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
MU643000C : Can perform this command.
- [Example use] > :SYSTem:INTerface:M2:IDATA:LSUBaddress "1234"

### :SYSTem:INTerface:M2:IDATA:LSUBaddress?

- [Parameter] None
- [Response] <lsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTem:M2:IDATA:LSUBaddress.
- [Function] Queries the setting status of the G.704/I.431 2.048M local subaddress of call judgment (for test data).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Data:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M2:IDATA:LSUBaddress?  
< "1234"

**:SYSTEm:INTerface:M2:IDATA:LCHannel <lchannel>**

[Parameter]      <lchannel>=<CHARACTER PROGRAM DATA>

ANY	:Any	B17	:B17
B1	:B1	B18	:B18
B2	:B2	B19	:B19
B3	:B3	B20	:B20
B4	:B4	B21	:B21
B5	:B5	B22	:B22
B6	:B6	B23	:B23
B7	:B7	B24	:B24
B8	:B8	B25	:B25
B9	:B9	B26	:B26
B10	:B10	B27	:B27
B11	:B11	B28	:B28
B12	:B12	B29	:B29
B13	:B13	B30	:B30
B14	:B14	B31	:B31
B15	:B15	H0	:H0

NONE :None

[Function]      Sets the G.704/I.431 2.048M local channel for call judgement (for test data).

[Screen]      Interface:G.704/I.431 2.048M:ISDN Data:Local Channel of Setup:System screen

[Restriction]    If the calling/being-called option is not installed, cannot perform this command. (execution error)

Exists some interface unit which can not perform this command.  
(execution error)

MU643000A	: Can perform this command.
MU643000B/K	: Can not perform this command.
MU643000C	: Can perform this command.

[Example use]    > :SYSTEm:INTerface:M2:IDATA:LCHannel ANY

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:IDATA:LCHannel?

[Parameter]	None
[Response]	<lchannel>=<CHARACTER RESPONSE DATA> The same as :SYSTem:INTerface:M2:IDATA:LCHannel.
[Function]	Queries the setting status of the G.704/I.431 2.048M local channel for call judgment (for test data).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Data:Local Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTem:INTerface:M2:IDATA:LCHannel? < ANY

### :SYSTem:INTerface:M2:IDATA:LHChannel0 <lhchannel0>

[Parameter]	<lhchannel0>=<STRING PROGRAM DATA>  "010203171819" :01-02-03 17-18-19 "040506202122" :04-05-06 20-21-22 "070809232425" :07-08-09 23-24-25 "101112262728" :10-11-12 26-27-28 "131415293031" :13-14-15 29-30-31 "010711172327" :01-07-11 17-23-27 "030915192531" :03-09-15 19-25-31 "040812202428" :04-08-12 20-24-28 "051013212629" :05-10-13 21-26-29 "020614182230" :02-06-14 18-22-30
[Function]	Sets the G.704/I.431 2.048M local channel for call judgement (H0 channel, for test data).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Data:Local H0 Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error) Exists some interface unit which can not perform this command. (execution error) MU643000A : Can perform this command. MU643000B/K : Can not perform this command. MU643000C : Can perform this command.
[Example use]	> :SYSTem:INTerface:M2:IDATA:LHChannel0 "010203171819"

**:SYSTEm:INTerface:M2:IDATA:LHChannel0?**

[Parameter] None

[Response] <lhchannel0>=<STRING RESPONSE DATA>  
The same as :SYSTEm:INTerface:M2:IDATA:LHChannel0

[Function] Queries the setting status of the G.704/I.431 2.048M local channel of call judgment (H0 channel, for test data).

[Screen] Interface:G.704/I.431 2.048M:ISDN Data:Local H0 Channel of Setup:System screen

[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.

[Example use] > :SYSTEm:INTerface:M2:IDATA:LHChannel0?  
< "010203171819"

**:SYSTEm:INTerface:M2:IVoice:RNUMber <rnumber>**

[Parameter] <rnumber>=<STRING PROGRAM DATA>  
"Remote number"  
Maximum 15 digits. 0 to 9, \*, # and -.  
If there is no number of even one digit, the invalid state "\*\*\*\*\*" is returned.

[Function] Sets the G.704/I.431 2.048M remote number (for voice call).

[Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Remote Number of Setup:System screen.

[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
MU643000C : Can perform this command.

[Example use]> :SYSTEm:INTerface:M2:IVoice:RNUMber "0462-21-1111"

## SECTION 6 REMOTE COMMANDS

### **:SYSTem:INTerface:M2:IVoice:RNUMber?**

[Parameter] None  
[Response] <rnumber>=<STRING RESPONSE DATA>  
The same as :SYSTem:INTerface:M2:IVoice:RNUMber.  
[Function] Queries the setting status of the G.704/I.431 2.048M remote number (for voice call).  
[Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Remote Number of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:M2:IVoice:RNUMber?  
<"0462-21-1111"

### **:SYSTem:INTerface:M2:IVoice:RSUBaddress <rsubadd>**

[Parameter] <rsubadd>=<STRING PROGRAM DATA>  
"Remote subaddress"  
Maximum 19 digits. 0 to 9, \* and #.  
If there is no number of even one digit, the invalid state "\*\*\*\*\*" is returned.  
[Function] Sets the G.704/I.431 2.048M remote subaddress (for voice call).  
[Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Remote Subaddress of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command.  
(execution error)  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
MU643000C : Can perform this command.  
[Example use] > :SYSTem:INTerface:M2:IVoice:RSUBaddress "1234"

## 6.2 SYSTEm Sub-system

### :SYSTEm:INTerface:M2:IVoice:RSUBaddress?

[Parameter]	None
[Response]	<rsubadd>=<STRING RESPONSE DATA> The same as :SYSTEm:INTerface:M2:IVoice:RSUBaddress.
[Function]	Queries the setting status of the G.704/I.431 2.048M remote subaddress (for voice call).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Voice:Remote Subaddress of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, no response data occurs and execution error is returned.
[Example use]	> :SYSTEm:INTerface:M2:IVoice:RSUBaddress? <"1234"

### :SYSTEm:INTerface:M2:IVoice:RCHannel <rchannel>

[Parameter]	<rchannel>=<CHARACTER PROGRAM DATA>
	ANY :Any B17 :B17
	B1 :B1 B18 :B18
	B2 :B2 B19 :B19
	B3 :B3 B20 :B20
	B4 :B4 B21 :B21
	B5 :B5 B22 :B22
	B6 :B6 B23 :B23
	B7 :B7 B24 :B24
	B8 :B8 B25 :B25
	B9 :B9 B26 :B26
	B10 :B10 B27 :B27
	B11 :B11 B28 :B28
	B12 :B12 B29 :B29
	B13 :B13 B30 :B30
	B14 :B14 B31 :B31
	B15 :B15
[Function]	Sets the G.704/I.431 2.048M calling channel (for voice call).
[Screen]	Interface:G.704/I.431 2.048M:ISDN Voice:Remote Channel of Setup:System screen
[Restriction]	If the calling/being-called option is not installed, cannot perform this command. (execution error) Exists some interface unit which can not perform this command. (execution error)
	MU643000A : Can perform this command.
	MU643000B/K : Can not perform this command.
	MU643000C : Can perform this command.
[Example use]	> :SYSTEm:INTerface:M2:IVoice:RCHannel ANY

## SECTION 6 REMOTE COMMANDS

### :SYSTem:INTerface:M2:IVoice:RCHannel?

[Parameter] None  
[Response] <rchannel>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:M2:IVoice:RCHannel.  
[Function] Queries the setting status of the G.704/I.431 2.048M calling channel (for voice call).  
[Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Remote Channel of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.  
[Example use] > :SYSTem:INTerface:M2:IVoice:RCHannel?  
< ANY

### :SYSTem:INTerface:M2:IVoice:LSUBaddress <lsubadd>

[Parameter] <lsubadd>=<STRING PROGRAM DATA>  
"Local Subaddress for call judgement"  
Maximum 19 digits. 0 to 9.  
If there is no number of even one digit, the invalid state  
"\*\*\*\*\*" is returned.  
[Function] Sets the G.704/I.431 2.048M local subaddress for call judgement (for voice call).  
[Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Local Subaddress of Setup:System screen  
[Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command.  
(execution error)  
    MU643000A : Can perform this command.  
    MU643000B/K : Can not perform this command.  
    MU643000C : Can perform this command.  
[Example use] > :SYSTem:INTerface:M2:IVoice:LSUBaddress "1234"

## 6.2 SYSTEm Sub-system

### :SYSTEm:INTerface:M2:IVoice:LSubAddress?

- [Parameter] None
- [Response] <lsubadd>=<STRING RESPONSE DATA>  
The same as :SYSTEm:INTerface:M2:IVoice:LSubAddress.
- [Function] Queries the setting status of the G.704/I.431 2.048M local subaddress for call judgement (for voice call).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Local Subaddress of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTEm:INTerface:M2:IVoice:LSubAddress?  
<"1234"

### :SYSTEm:INTerface:M2:IVoice:LChannel <lchannel>

- [Parameter] <lchannel>=<CHARACTER PROGRAM DATA>
- |     |      |     |      |      |       |
|-----|------|-----|------|------|-------|
| ANY | :Any | B12 | :B12 | B25  | :B25  |
| B1  | :B1  | B13 | :B13 | B26  | :B26  |
| B2  | :B2  | B14 | :B14 | B27  | :B27  |
| B3  | :B3  | B15 | :B15 | B28  | :B28  |
| B4  | :B4  | B17 | :B17 | B29  | :B29  |
| B5  | :B5  | B18 | :B18 | B30  | :B30  |
| B6  | :B6  | B19 | :B19 | B31  | :B31  |
| B7  | :B7  | B20 | :B20 | NONE | :None |
| B8  | :B8  | B21 | :B21 |      |       |
| B9  | :B9  | B22 | :B22 |      |       |
| B10 | :B10 | B23 | :B23 |      |       |
| B11 | :B11 | B24 | :B24 |      |       |
- [Function] Sets the G.704/I.431 2.048M local channel for call judgement (for voice call).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Local Channel of Setup:System screen.
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)  
Exists some interface unit which can not perform this command. (execution error)
- |             |                                 |
|-------------|---------------------------------|
| MU643000A   | : Can perform this command.     |
| MU643000B/K | : Can not perform this command. |
| MU643000C   | : Can perform this command.     |
- [Example use] > :SYSTEm:INTerface:M2:IVoice:LChannel ANY

## SECTION 6 REMOTE COMMANDS

### **:SYSTem:INTerface:M2:IVoice:LCHannel?**

- [Parameter] None
- [Response] <lchannel>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:INTerface:M2:IVoice:LCHannel.
- [Function] Queries the setting status of the G.704/I.431 2.048M local channel for call judgement (for voice call).
- [Screen] Interface:G.704/I.431 2.048M:ISDN Voice:Local Channel of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:INTerface:M2:IVoice:LCHannel?  
< ANY

### **:SYSTem:ISDN:SPRotocol <protocol>**

- [Parameter] <protocol>=<CHARACTER PROGRAM DATA>  
JT :JT-Q921/Q931  
ETSI :ETSI
- [Function] Sets the ISDN calling/being called protocol.
- [Screen] Common of ISDN of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, cannot perform this command. (execution error)
- [Example use] > :SYSTem:ISDN:SPRotocol JT

### **:SYSTem:ISDN:SPRotocol?**

- [Parameter] None
- [Response] <protocol>=<CHARACTER RESPONSE DATA>  
The same as :SYSTem:ISDN:SPRotocol.
- [Function] Queries the setting status of ISDN calling/being called protocol.
- [Screen] Common of ISDN of Setup:System screen
- [Restriction] If the calling/being-called option is not installed, no response data occurs and execution error is returned.
- [Example use] > :SYSTem:ISDN:SPRotocol?  
< JT

**:SYSTEm:DCONnect:ISTart**

[Parameter] None  
[Function] Sets start originating the ISDN data.  
[Screen] Area for the operating instruction button  
[Restriction] The execution error is issued and this function is ignored when start of originating is in progress.  
If the calling/being-called option is not installed, cannot perform this command. (execution error)  
If the originating is in progress, this function is neglected, and the execution error is returned.  
[Example use] > :SYSTEm:DCONnect:ISTart

**:SYSTEm:DCONnect:STOP**

[Parameter] None  
[Function] Sets the disconnection of the ISDN data.  
[Screen] Area for the operating instruction button.  
[Example use] > :SYSTEm:DCONnect:STOP

## SECTION 6 REMOTE COMMANDS

### :SYSTem:DCONNECT:STATE?

[Parameter]	None																																																																																																																																								
[Response]	<p>&lt;ctype&gt;=&lt;CHARACTER RESPONSE DATA&gt;</p> <p>NULL :The state of not-connected-yet      RINGing :The state of connection in progress      ACTive :The state of connection completed</p> <p>&lt;pchannel&gt;=&lt;CHARACTER RESPONSE DATA&gt;</p> <table border="0"> <tr><td>NULL</td><td>:There are no calling channels</td><td>B16</td><td>:Active for calling with B16.</td></tr> <tr><td>B1</td><td>:Active for calling with B1.</td><td>B17</td><td>:Active for calling with B17.</td></tr> <tr><td>B2</td><td>:Active for calling with B2.</td><td>B18</td><td>:Active for calling with B18.</td></tr> <tr><td>B3</td><td>:Active for calling with B3.</td><td>B19</td><td>:Active for calling with B19.</td></tr> <tr><td>B4</td><td>:Active for calling with B4.</td><td>B20</td><td>:Active for calling with B20.</td></tr> <tr><td>B5</td><td>:Active for calling with B5.</td><td>B21</td><td>:Active for calling with B21.</td></tr> <tr><td>B6</td><td>:Active for calling with B6.</td><td>B23</td><td>:Active for calling with B22.</td></tr> <tr><td>B7</td><td>:Active for calling with B7</td><td>B22</td><td>:Active for calling with B23</td></tr> <tr><td>B8</td><td>:Active for calling with B8.</td><td>B24</td><td>:Active for calling with B24.</td></tr> <tr><td>B9</td><td>:Active for calling with B9.</td><td>B25</td><td>:Active for calling with B25.</td></tr> <tr><td>B10</td><td>:Active for calling with B10.</td><td>B26</td><td>:Active for calling with B26.</td></tr> <tr><td>B11</td><td>:Active for calling with B11.</td><td>B27</td><td>:Active for calling with B27.</td></tr> <tr><td>B12</td><td>:Active for calling with B12.</td><td>B28</td><td>:Active for calling with B28.</td></tr> <tr><td>B13</td><td>:Active for calling with B13.</td><td>B29</td><td>:Active for calling with B29.</td></tr> <tr><td>B14</td><td>:Active for calling with B14.</td><td>B30</td><td>:Active for calling with B30.</td></tr> <tr><td>B15</td><td>:Active for calling with B15.</td><td>B31</td><td>:Active for calling with B31.</td></tr> <tr><td></td><td>H0</td><td></td><td>:Active for calling with H0.</td></tr> </table> <p>&lt;nchannel&gt;=&lt;CHARACTER RESPONSE DATA&gt;</p> <table border="0"> <tr><td>NULL</td><td>:There are no called channels.</td><td>B16</td><td>:Active for being called with B16.</td></tr> <tr><td>B1</td><td>:Active for being called with B1.</td><td>B17</td><td>:Active for being called with B17</td></tr> <tr><td>B2</td><td>:Active for being called with B2.</td><td>B18</td><td>:Active for being called with B18.</td></tr> <tr><td>B3</td><td>:Active for being called with B3.</td><td>B19</td><td>:Active for being called with B19.</td></tr> <tr><td>B4</td><td>:Active for being called with B4.</td><td>B20</td><td>:Active for being called with B20.</td></tr> <tr><td>B5</td><td>:Active for being called with B5.</td><td>B21</td><td>:Active for being called with B21.</td></tr> <tr><td>B6</td><td>:Active for being called with B6.</td><td>B22</td><td>:Active for being called with B22.</td></tr> <tr><td>B7</td><td>:Active for being called with B7.</td><td>B23</td><td>:Active for being called with B23.</td></tr> <tr><td>B8</td><td>:Active for being called with B8.</td><td>B24</td><td>:Active for being called with B24.</td></tr> <tr><td>B9</td><td>:Active for being called with B9.</td><td>B25</td><td>:Active for being called with B25.</td></tr> <tr><td>B10</td><td>:Active for being called with B10.</td><td>B26</td><td>:Active for being called with B26.</td></tr> <tr><td>B11</td><td>:Active for being called with B11.</td><td>B27</td><td>:Active for being called with B27.</td></tr> <tr><td>B12</td><td>:Active for being called with B12.</td><td>B28</td><td>:Active for being called with B28.</td></tr> <tr><td>B13</td><td>:Active for being called with B13.</td><td>B29</td><td>:Active for being called with B29.</td></tr> <tr><td>B14</td><td>:Active for being called with B14.</td><td>B30</td><td>:Active for being called with B30.</td></tr> <tr><td>B15</td><td>:Active for being called with B15.</td><td>B31</td><td>:Active for being called with B31.</td></tr> <tr><td></td><td>H0</td><td></td><td>:Active for being called with H0.</td></tr> </table>	NULL	:There are no calling channels	B16	:Active for calling with B16.	B1	:Active for calling with B1.	B17	:Active for calling with B17.	B2	:Active for calling with B2.	B18	:Active for calling with B18.	B3	:Active for calling with B3.	B19	:Active for calling with B19.	B4	:Active for calling with B4.	B20	:Active for calling with B20.	B5	:Active for calling with B5.	B21	:Active for calling with B21.	B6	:Active for calling with B6.	B23	:Active for calling with B22.	B7	:Active for calling with B7	B22	:Active for calling with B23	B8	:Active for calling with B8.	B24	:Active for calling with B24.	B9	:Active for calling with B9.	B25	:Active for calling with B25.	B10	:Active for calling with B10.	B26	:Active for calling with B26.	B11	:Active for calling with B11.	B27	:Active for calling with B27.	B12	:Active for calling with B12.	B28	:Active for calling with B28.	B13	:Active for calling with B13.	B29	:Active for calling with B29.	B14	:Active for calling with B14.	B30	:Active for calling with B30.	B15	:Active for calling with B15.	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[Example use]	> :SYSTem:DCONNECT:STATE? < ACT,NULL,B2																																																																																																																																								

## 6.2 SYSTem Sub-system

### :SYSTem:VCONnect:ISTart

[Parameter] None  
[Function] Sets start of originating the ISDN voice  
[Screen] Area for the operating instruction button  
[Restriction] If originating is in progress, this function is ignored and the execution error is returned.  
If the calling/being-called option is not installed, cannot perform this command. (execution error)  
[Example use] > :SYSTem:VCONnect:ISTart

### :SYSTem:VCONnect:PSTart

[Parameter] None  
[Function] Sets called operation of the ISDN voice.  
[Screen] Area for the operating instruction button.  
[Restriction] If originating is in progress, this function is ignored and the execution error is returned.  
[Example use] > :SYSTem:VCONnect:PSTart

### :SYSTem:VCONnect:STOP

[Parameter] None  
[Function] Sets disconnection of the ISDN voice.  
[Screen] Area for the operating instruction button  
[Example use] > :SYSTem:VCONnect:STOP

## SECTION 6 REMOTE COMMANDS

### :SYSTem:VCONnect:STATE?

[Parameter] None  
[Response] <ctype>=<CHARACTER RESPONSE DATA>  
NULL :The state of not-connected-yet  
RINGing :The state of connection in progress  
ACTive :The state of connection completed  
<pchannel>=<CHARACTER RESPONSE DATA>  
NULL :There are no calling channels B16 :Active for calling with B16.  
B1 :Active for calling with B1. B17 :Active for calling with B17.  
B2 :Active for calling with B2. B18 :Active for calling with B18.  
B3 :Active for calling with B3. B19 :Active for calling with B19.  
B4 :Active for calling with B4. B20 :Active for calling with B20.  
B5 :Active for calling with B5. B21 :Active for calling with B21.  
B6 :Active for calling with B6. B23 :Active for calling with B22.  
B7 :Active for calling with B7 B22 :Active for calling with B23  
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B14 :Active for calling with B14. B30 :Active for calling with B30.  
B15 :Active for calling with B15. B31 :Active for calling with B31.  
<nchannel>=<CHARACTER RESPONSE DATA>  
NULL:There are no called channels. B16 :Active for being called with B16.  
B1 :Active for being called with B1. B17 :Active for being called with B17.  
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B13 :Active for being called with B13. B29 :Active for being called with B29.  
B14 :Active for being called with B14. B30 :Active for being called with B30.  
B15 :Active for being called with B15. B31 :Active for being called with B31.  
[Function] Queries the status for ISDN voice connection.  
[Screen] Area for the operating instruction button.  
[Example use]> :SYSTem:VCONnect:STATE?  
    < ACT,NULL,B2

**:SYSTem:ERRor?**

[Parameter] None  
 [Response] <error/event\_number>=<NR1 NUMERIC RESPONSE DATA>  
     -32768 to 32767  
     <error/event\_description>=<STRING RESPONSE DATA>  
         "Error message"  
 [Function] Queries the error status. (Refer to section 8 for details of error messages.)  
 [Screen] None  
 [Example use] > :SYSTem:ERRor?  
           <-101,"Invalid character"

**:SYSTem:VERSion?**

[Parameter] None  
 [Response] <version>=<NR2 NUMERIC RESPONSE DATA>  
     YYYY.V YYYY     :Year  
         V           :Version  
 [Function] Queries the SCPI version number to which the MD6430A conforms.  
 [Screen] None  
 [Example use] > :SYSTem:VERSion?  
           <1993.0

**:SYSTem:BATTery?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     0 to 100 (step 10): Remaining available capacity of battery (%)  
     0 is set when battery is not connected or when battery has abnormality.  
     <battery>=<STRING RESPONSE DATA>  
         "NBATtery"       :No battery  
         "TALarm"       :Temperature alarm  
         "BERRor"       :Battery abnormal  
         "NCHarging"     :Under charging  
         "LCAPacity"     :Requires charging (low capacity)  
         "NORMal"       :Under discharging or fully charged.  
 [Function] Queries the battery status.  
 [Screen] None  
 [Example use] > :SYSTem:BATTery?  
           <50,"NORM"

## SECTION 6 REMOTE COMMANDS

### 6.3 SOURce Sub-system

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#### :SOURce:TELecom:INTerface <interface>

[Parameter] <interface>=<CHARACTER PROGRAM DATA>

V24 :V.24/V.28(RS-232C)  
V35 :V.35  
V36 :V.36  
RS449 :RS-449  
X20 :X.20(RS-423)  
X21 :X.21(RS-422)  
TCMos :TTL/CMOS  
K64 :G.703 64k  
K192 :I.430/I.430-a 192k  
M1\_5 :G.704/I.431 1.544M  
M2 :G.704/I.431 2.048M  
CMIM2 :2M CMI  
M6 :G.704 6.312M

THRough :Through

[Function] Sets type of the send Interface.

[Screen] Tx:Interface of the Interface:Interface screen

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : M2 are unavailable.

MU643000C : M1\_5, CMIM2 and M6 are unavailable.

[Example use] > :SOURce:TELecom:INTerface V24

#### :SOURce:TELecom:INTerface?

[Parameter] None

[Response] <interface>=<CHARACTER RESPONSE DATA>

The same as :SOURce:TELecom:INTerface.

[Function] Queries the setting status of the type of send Interface.

[Screen] Tx:Interface of the Interface:Interface screen.

[Example use] > :SOURce:TELecom:INTerface?

< V24

**:SOURce:TELecom:TIMing <timing>**

[Parameter]    <timing>=<STRING PROGRAM DATA>

"ASYNc"	:Async
"ST1"	:ST1
"ST2"	:ST2
"ST2:INV"	:ST2(INV)
"S"	:S
"S:INV"	:S(INV)
"RT"	:RT
"RT:INV"	:RT(INV)

[Function]    Sets synchronization/asynchronization mode and timing clock.

[Screen]    Tx:Timing of the Interface:Interface screen

[Example use]    > :SOURce:TELecom:TIMing "ASYNc"

**:SOURce:TELecom:TIMing?**

[Parameter]    None

[Response]    <timing>=<STRING RESPONSE DATA>

The same as :SOURce:TELecom:TIMing.

[Function]    Queries the setting status of the synchronization/asynchronization mode and timing clock.

[Screen]    Tx:Timing of the Interface:Interface screen

[Example use]    > :SOURce:TELecom:TIMing?  
                  < "ASYN"

**:SOURce:TELecom:IFSource <ifsource>**

[Parameter]    <ifsource>=<CHARACTER PROGRAM DATA>

SELF	:Self
EXT	:Ext(64k+8k)
RD	:RD

[Function]    Sets the internal clock source.

[Screen]    Tx:Timing of the Interface:Interface screen

[Example use]    > :SOURce:TELecom:IFSource SELF

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:IFSource?

[Parameter] None  
[Response] <ifsource>=<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:IFSource.  
[Function] Queries the setting status of the internal clock source.  
[Screen] Tx:Timing of the Interface:Interface screen.  
[Example use] > :SOURce:TELecom:IFSource?  
< SELF

### :SOURce:TELecom:SSBit <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets insertion of start/stop bits.  
[Screen] Tx:Start/Stop bits of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:SSBit 0

### :SOURce:TELecom:SSBit?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:SSBit.  
[Function] Queries the setting status of insertion of start/stop bits.  
[Screen] Tx:Start/Stop bits of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:SSBit?  
< 0

### :SOURce:TELecom:BRATe <brate>

[Parameter] <brate>=<DECIMAL NUMERIC PROGRAM DATA>  
50 to 10000000 :50bit/s to 10000000bit/s (step 5bit/s)  
[Function] Sets the internal clock frequency.  
[Screen] Tx:Bit rate of the Interface:Interface screen.  
[Restriction] When the setting value of <brate> is out of the valid range, the value is automatically set to the nearest value within the range.  
[Example use] > :SOURce:TELecom:BRATe 50

**:SOURce:TELecom:BRATe?**

[Parameter] None  
 [Response] <brate>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:BRATe.  
 [Function] Queries the setting status of the internal clock frequency.  
 [Screen] Tx:Bit rate of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:BRATe?  
     < 50

**:SOURce:TELecom:DLENgth <dlength>**

[Parameter] <dlength>=<STRING PROGRAM DATA>  
     "BIT5"   :5bit  
     "BIT6"   :6bit  
     "BIT7"   :7bit  
     "BIT8"   :8bit  
 [Function] Sets the data length.  
 [Screen] Tx:Data length of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:DLENgth "BIT5"

**:SOURce:TELecom:DLENgth?**

[Parameter] None  
 [Response] <dlength>=<STRING RESPONSE DATA>  
     The same as :SOURce:TELecom:DLENgth.  
 [Function] Queries the setting status of data length.  
 [Screen] Tx:Data length of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:DLENgth?  
     < "BIT5"

**:SOURce:TELecom:PARity <parity>**

[Parameter] <parity>=<CHARACTER PROGRAM DATA>  
     NONE   :None  
     ODD   :Odd  
     EVEN   :Even  
 [Function] Sets parity.  
 [Screen] Tx:Parity of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:PARity NONE

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:PARity?

[Parameter] None  
[Response] <parity>=<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:PARity.  
[Function] Queries the setting status of parity.  
[Screen] Tx:Parity of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:PARity?  
< NONE

### :SOURce:TELecom:STBit <stbit>

[Parameter] <stbit>=<STRING PROGRAM DATA>  
"BIT1" :1bit  
"BIT1\_5" :1.5bit  
"BIT2" :2bit  
[Function] Sets the stop bit.  
[Screen] Tx:Stop bit of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:STBit "BIT1"

### :SOURce:TELecom:STBit?

[Parameter] None  
[Response] <stbit>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:STBit.  
[Function] Queries the setting status of stop bit.  
[Screen] Tx:Stop bit of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:STBit?  
< "BIT1"

### :SOURce:TELecom:BSYNc <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the byte synchronization using B line.  
[Screen] Tx:Byte sync of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:BSYNc 0

**:SOURce:TELecom:BSYNc?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:BSYNc.  
 [Function] Queries the setting status of byte synchronization using B line.  
 [Screen] Tx:Byte sync of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:BSYNc?  
     < 0

**:SOURce:TELecom:SCONtrol <scontrol>**

[Parameter] <scontrol>=<STRING PROGRAM DATA>  
     "ALWays"         :Always  
     "CS:ON"         :CS-On  
     "C:ON"         :C-On  
 [Function] Sets the send control.  
 [Screen] Tx:Send control of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:SCONtrol "ALWays"

**:SOURce:TELecom:SCONtrol?**

[Parameter] None  
 [Response] <scontrol>=<STRING RESPONSE DATA>  
     The same as :SOURce:TELecom:SCONtrol.  
 [Function] Queries the setting status of send control.  
 [Screen] Tx:Send control of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:SCONtrol?  
     < "ALW"

**:SOURce:TELecom:CODE <code>**

[Parameter] <code>=<STRING PROGRAM DATA>  
     "AMI"         :AMI  
     "B8ZS"         :B8ZS  
     "HDB3"         :HDB3  
 [Function] Sets the transmission code.  
 [Screen] Tx:Code of the Interface:Interface screen  
 [Restriction] Exists the parameter depending on sort of the interface unit.  
     MU643000A         : All parameters are available.  
     MU643000B/K         : "HDB3" is unavailable.  
     MU643000C         : "B8ZS" is unavailable.  
 [Example use] > :SOURce:TELecom:CODE "AMI"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:CODE?

- [Parameter] None  
[Response] <code>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:CODE.  
[Function] Queries the setting status of transmission code.  
[Screen] Tx:Code of the Interface:Interface screen.  
[Example use] > :SOURce:TELecom:CODE?  
<"AMI"

### :SOURce:TELecom:FRAMe <frame>

- [Parameter] <frame>=<STRING PROGRAM DATA>  
"MFP24:G704" :24MFP(G.704)  
"MFP24:NTT" :24MFP(NTT)  
"MFP16:B30+D" :16MFP(30B+D)  
"MFP16:B31" :16MFP(31B)  
"MFP12:G704" :12MFP(G.704)  
"MFP2:B30+D" :2MFP(30B+D)  
"MFP2:B31" :2MFP(31B)  
"ST" :ST  
"PBX" :PBX  
"CRV" :CRV  
"MFP4:G704" :4MFP(G.704)  
"UNFRame" :Unframe  
[Function] Sets the frame format.  
[Screen] Tx:Frame of the Interface:Interface screen  
[Restriction] Exists the parameter depending on sort of the interface unit.  
MU643000A : All parameters are available.  
MU643000B : "MFP16:B30+D", "MFP16:B31", "MFP2:B30+D",  
"MFP2:B31" are unavailable.  
MU643000C : "MFP24:G704", "MFP24:NTT", "MFP12:G704",  
"ST", "PBX", "CRV" and "MFP4:G704" are  
unavailable.  
MU643000K : "MFP16:B30+D", "MFP16:B31", "MFP2:B30+D",  
and "MFP2:B31" are unavailable.  
[Example use] > :SOURce:TELecom:FRAMe "MFP24:G704"

#### :SOURce:TELecom:FRAMe?

[Parameter] None  
[Response] <frame>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:FRAMe  
[Function] Queries the setting status of frame format.  
[Screen] Tx:Frame of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:FRAMe?  
< "MFP24:G704"

#### :SOURce:TELecom:SKB8 <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the byte synchronization using the input signal of Ext (64k + 8k).  
[Screen] Tx:8k byte sync of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:SKB8 0

#### :SOURce:TELecom:SKB8?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:SKB8.  
[Function] Queries the setting status of byte synchronization using the input signal of EXT (64k + 8k).  
[Screen] Tx:8k byte sync of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:SKB8?  
< 0

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:TSLot[:TYPE] <tslot>

- [Parameter] <tslot>=<CHARACTER PROGRAM DATA>
- |         |          |
|---------|----------|
| TSN     | :TSn     |
| H0      | :H0      |
| H11     | :H11     |
| H12     | :H12     |
| ANY     | :Any     |
| DLBit   | :DL bit  |
| DCH     | :Dch     |
| SABit   | :Sa bit  |
| SPBit   | :SP bit  |
| THRough | :Through |
- [Function] Sets the time slot for test.
- [Screen] Tx:Time slot of the Interface:Interface screen
- [Restriction] Exists the parameter depending on sort of the interface.
- |             |                                    |
|-------------|------------------------------------|
| MU643000A   | : All parameters are unavailable.  |
| MU643000B/K | : H12 and SABit are unavailable.   |
| MU643000C   | : DLBit and SPBit are unavailable. |
- [Example use] > :SOURce:TELecom:TSLot TSN

### :SOURce:TELecom:TSLot[:TYPE]?

- [Parameter] None
- [Response] <tslot>=<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:TSLot[:TYPE].
- [Function] Queries the setting status of time slot for test.
- [Screen] Tx:Time slot of the Interface:Interface screen.
- [Example use] > :SOURce:TELecom:TSLot?  
< TSN

### :SOURce:TELecom:TSLot:TSN <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>
- |                  |              |
|------------------|--------------|
| 1 to 98 (step 1) | :MU643000A   |
| 1 to 98 (step 1) | :MU643000B/K |
| 1 to 31 (step 1) | :MU643000C   |
- [Function] Sets the time slot for test.
- [Screen] Tx:Time slot of the Interface:Interface screen
- [Restriction] Every interface unit, available parameter value is different.
- [Example use] > :SOURce:TELecom:TSLot:TSN 1

**:SOURce:TELecom:TSLot:TSN?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:TSLot:TSN.  
 [Function] Queries the setting status of time slot for test.  
 [Screen] Tx:Time slot of the Interface:Interface screen.  
 [Example use] > :SOURce:TELecom:TSLot:TSN?  
     < 1

**:SOURce:TELecom:TSLot:HGN <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
     1 to 16 (step 1)  
 [Function] Sets the handling group in time slot for test.  
 [Screen] Tx:Time slot of the Interface:Interface screen  
 [Restriction] Available commands are different depending on interface unit used,  
     MU643000A : Available  
     MU643000B/K : Available  
     MU643000C : Unavailable  
 [Example use] > :SOURce:TELecom:TSLot:HGN 1

**:SOURce:TELecom:TSLot:HGN?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:TSLot:HGN.  
 [Function] Queries the setting status of handling group in time slot for test.  
 [Screen] Tx:Time slot of the Interface:Interface screen  
 [Restriction] The same as :SOURce:TELecom:TSLot:HGN.  
     After executing a unavailable command, the response is not sent and an execution  
     error is occurred.  
 [Example use] > :SOURce:TELecom:TSLot:HGN?  
     < 1

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:TSLot:DCHannel <dchannel>

[Parameter] <dchannel>=<CHARACTER PROGRAM DATA>

B1 :B1  
B2 :B2  
B12 :B1+B2  
D :D  
THRough :Through

[Function] Sets channel for the I.430/I.430-a 192k test.

[Screen] Tx:Data channel of the Interface:Interface screen

[Example use] > :SOURce:TELecom:TSLot:DCHannel B1

### :SOURce:TELecom:TSLot:DCHannel?

[Parameter] None

[Response] <dchannel>=<CHARACTER RESPONSE DATA>

The same as :SOURce:TELecom:TSLot:DCHannel.

[Function] Queries the setting status of the channel for the I.430/I.430-a 192k test.

[Screen] Tx:Data channel of the Interface:Interface screen

[Example use] > :SOURce:TELecom:TSLot:DCHannel?  
< B1

### :SOURce:TELecom:CHANnel <channel>

[Parameter] <channel>=<CHARACTER PROGRAM DATA>

SBIT :ST bit  
CH1 :CH1  
CH2 :CH2  
CH3 :CH3  
CH4 :CH4  
CH5 :CH5  
CH6 :CH6  
ALLCh :All CH  
INFO :Info

[Function] Sets channel for test.

[Screen] Tx:Channel of Interface:Interface screen

[Restriction] The command may be unavailable depending on the interface unit to be used.

MU643000A : Available  
MU643000B/K : Available  
MU643000C : Unavailable

[Example use] > :SOURce:TELecom:CHANnel SBIT

### 6.3 SOURce Sub-system

#### :SOURce:TELecom:CHANnel?

[Parameter] None  
[Response] <channel>=<CHARACTER PROGRAM DATA>  
              :The same as :SOURce:TELecom:CHANnel.  
[Function] Queries the setting status of the channel for the test.  
[Screen] Tx:Channel of Interface:Interface screen  
[Restriction] The same as :SOURce:TELecom:CHANnel.  
              If the unavailable command is executed, no response data occurs and the execution error is returned.  
[Example use] > :SOURce:TELecom:CHANnel?  
              <SBIT

#### :SOURce:TELecom:TSLot:DBRate <dbrate>

[Parameter] <dbrate>=<STRING PROGRAM DATA>  
              "K64"                 :64k×n  
              "K56\_17"            :56k(1-7)×n  
              "K56\_28"            :56k(2-8)×n  
              "K32"                :32kbit/s  
              "K16"                :16kbit/s  
              "K8"                 :8kbit/s  
              "K48"                :48kbit/s  
              "K9\_6"               :9.6kbit/s  
              "K4\_8"               :4.8kbit/s  
              "K2\_4"               :2.4kbit/s  
              "K0\_6"               :600bit/s  
              "DSIGnaling"       :Signaling  
              "M1\_544"           :1.544Mbit/s  
              "X50:ANY"           :X.50 Any  
[Function] Sets data bit rate for test.  
[Screen] Tx:Data bit rate of the Interface:Interface screen  
[Restriction] Exists the parameter depending on the sort of the interface unit.  
              MU643000A          : All parameters are available.  
              MU643000B/K        :"M1\_544" is unavailable.  
              MU643000C          : All parameters are available.  
[Example use] > :SOURce:TELecom:TSLot:DBRate "K64"

## SECTION 6 REMOTE COMMANDS

### **:SOURce:TELecom:TSLot:DBRate?**

[Parameter] None  
[Response] <dbrate>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:TSLot:DBRate.  
[Function] Queries the setting status of data bit rate for test.  
[Screen] Tx:Data bit rate of the Interface:Interface screen.  
[Example use] > :SOURce:TELecom:TSLot:DBRate?  
<"K64"

### **:SOURce:TELecom:TSLot:DBRN <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 98 (step 1) : MU643000A  
1 to 98 (step 1) : MU643000B/K  
1 to 31 (step 1) : MU643000C  
[Function] Sets data bit rate for test.  
[Screen] Tx:Data bit rate of the Interface:Interface screen  
[Restriction] Every interface unit, available parameter value is different.  
[Example use] > :SOURce:TELecom:TSLot:DBRN 1

### **:SOURce:TELecom:TSLot:DBRN?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:TSLot:DBRate.  
[Function] Queries the setting status of data bit rate for test.  
[Screen] Tx:Data bit rate of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:TSLot:DBRN?  
<1

**:SOURce:TELecom:TSLot:HChannel0 <hchannel0>**

[Parameter]	<hchannel0>=<STRING PROGRAM DATA>	
	"010203040506"	:01-02-03-04-05-06
	"070809101112"	:07-08-09-10-11-12
	"131415161718"	:13-14-15-16-17-18
	"192021222324"	:19-20-21-22-23-24
	"010203171819"	:01-02-03 17-18-19
	"040506202122"	:04-05-06 20-21-22
	"070809232425"	:07-08-09 23-24-25
	"101112262728"	:10-11-12 26-27-28
	"131415293031"	:13-14-15 29-30-31
	"010711172327"	:01-07-11 17-23-27
	"030915192531"	:03-09-15 19-25-31
	"040812202428"	:04-08-12 20-24-28
	"051013212629"	:05-10-13 21-26-29
	"020614182230"	:02-06-14 18-22-30
[Function]	Sets the H0 channel.	
[Screen]	Tx:H0 Channel of the Interface:Interface screen	
[Restriction]	Exists the parameter depending on sort of the interface unit.	
[Example use]	> :SOURce:TELecom:TSLot:HChannel0 "010203040506"	

**:SOURce:TELecom:TSLot:HChannel0?**

[Parameter]	None
[Response]	<hchannel0>=<STRING RESPONSE DATA>
	The same as :SOURce:TELecom:TSLot:HChannel0.
[Function]	Queries the setting status of the H0 channel.
[Screen]	Tx:H0 Channel of the Interface:Interface screen.
[Example use]	> :SOURce:TELecom:TSLot:HChannel0? <"010203040506"

**:SOURce:TELecom:TSLot:TSASsign <numeric1>[,<numeric2>]...[,<numericN>]**

[Parameter]	<numeric1 to N>=<DECIMAL NUMERIC PROGRAM DATA>
	N = 1 to 98 (step 1) :MU643000A
	N = 1 to 98 (step 1) :MU643000B/K
	N = 1 to 31 (step 1) :MU643000C
[Function]	Sets the time-assigned slot.
[Screen]	Tx:Time slot assign of the Interface:Interface screen
[Restriction]	Every interface unit, the number of available parameter is different.
[Example use]	> :SOURce:TELecom:TSASsign 1,2,3,4

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:TSLot:TSASsign?

[Parameter] None  
[Response] <numeric1 to N>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:TSLot:TSASsign.  
[Function] Queries the setting status of the time-assigned slot.  
[Screen] Tx:Time slot assign of the Interface:Interface screen  
[Restriction] The same as :SOURce:TELecom:TSLot:TSASsign.  
[Example use] > :SOURce:TELecom:TSLot:TSASsign?  
< 1,2,3,4

### :SOURce:TELecom:TSLot:ATSassign

[Parameter] None  
[Function] Sets "select all" of the time-assigned slots.  
[Screen] Tx:Time slot assign of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:TSLot:ATSassign

### :SOURce:TELecom:TSLot:CTSassign

[Parameter] None  
[Function] Sets canceling "select all" of the time-assigned slots.  
[Screen] Tx:Time slot assign of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:TSLot:CTSassign

### :SOURce:TELecom:DFRame[:TYPE] <dframe>

[Parameter] <dframe>=<STRING PROGRAM DATA>  
"X50:MFP20" :X.50-20MFP  
"X50:MFP80" :X.50-80MFP  
"UNIVersal" :Universal  
[Function] Sets data frame.  
[Screen] Tx:Data frame of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:DFRame "X50:MFP20"

### :SOURce:TELecom:DFRame[:TYPE]?

[Parameter] None  
[Response] <dframe>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:DFRame[:TYPE].  
[Function] Queries the setting status of data frame.  
[Screen] Tx:Data frame of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:DFRame?  
< "X50:MFP20"

**:SOURce:TELecom:DFRame:XChannel50 <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 80 (step 1)
- [Function] Sets the data channel for X.50 frame test.
- [Screen] Tx:X.50 Data channel of the Interface:Interface screen
- [Restriction] Value depends on the interface unit used.
- [Example use] > :SOURce:TELecom:DFRame:XChannel50 1

**:SOURce:TELecom:DFRame:XChannel50?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:DFRame:XChannel50.
- [Function] Queries the setting status of data channel for the X.50 frame test.
- [Screen] Tx:X.50 Data channel of the Interface:Interface screen
- [Example use] > :SOURce:TELecom:DFRame:XChannel50?  
< 1

**:SOURce:TELecom:DFRame:XASSign50 <numeric1>[,<numeric2>]...[,<numeric80>]**

- [Parameter] <numeric1 to 80>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 80 (step 1)
- [Function] Sets the X.50 frame time-assigned channel.
- [Screen] Tx:X.50 Assign of the Interface:Interface screen
- [Restriction] Value depends on the interface unit used.
- [Example use] > :SOURce:TELecom:DFRame:XASSign50 1,2,3,4

**:SOURce:TELecom:DFRame:XASSign50?**

- [Parameter] None
- [Response] <numeric1 to N>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:DFRame:XASSign50.
- [Function] Queries the setting status of the X.50 time-assigned channel.
- [Screen] Tx:X.50 Assign of the Interface:Interface screen
- [Restriction] The same as :SOURce:TELecom:DFRame:XASSign50.
- [Example use] > :SOURce:TELecom:DFRame:XASSign50?  
< 1,2,3,4

**:SOURce:TELecom:DFRame:AXASsign50**

- [Parameter] None
- [Function] Sets "select all" of the X.50 time-assigned channels.
- [Screen] Tx:X.50 Assign of the Interface:Interface screen
- [Example use] > :SOURce:TELecom:DFRame:AXASsign50

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:DFRame:CXASsign50

[Parameter] None  
[Function] Sets canceling "select all" of the X.50 time-assigned channels.  
[Screen] Tx:X.50 Assign of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:DFRame:CXASsign50

### :SOURce:TELecom:MUX <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
              OFF or 0 :Off  
              ON or 1 :On  
[Function] Sets the On/Off of the MUX function.  
[Screen] Tx:MUX of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:MUX 0

### :SOURce:TELecom:MUX?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
              The same as :SOURce:TELecom:MUX.  
[Function] Queries the On/Off setting status of the MUX function.  
[Screen] Tx:MUX of the Interface:Interface screen.  
[Example use] > :SOURce:TELecom:MUX?  
              < 0

### :SOURce:TELecom:BASSign <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
              1 to 8 (step1)  
[Function] Sets data channel for test.  
[Screen] Tx:Bit assign of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:BASSign 1

### :SOURce:TELecom:BASSign?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
              The same as :SOURce:TELecom:BASSign.  
[Function] Queries the setting status of data channel for test.  
[Screen] Tx:Bit assign of the Interface:Interface screen.  
[Example use] > :SOURce:TELecom:BASSign?  
              < 1

**:SOURce:TELecom:BIT1 <bit>**

[Parameter]    <bit>=<STRING PROGRAM DATA>  
               "0"        :0  
               "1"        :1  
               "01"      :0/1(Alt)

[Function]    Sets time slot bit 1.

[Screen]      Tx:1st bit of the Interface:Interface screen.

[Example use] > :SOURce:TELecom:BIT1 "0"

**:SOURce:TELecom:BIT1?**

[Parameter]    None  
 [Response]     <bit>=<STRING RESPONSE DATA>  
                   The same as :SOURce:TELecom:BIT1.  
 [Function]     Queries the setting status of the time slot bit 1.  
 [Screen]       Tx:1st bit of the Interface:Interface screen.  
 [Example use] > :SOURce:TELecom:BIT1?  
                  < "0"

**:SOURce:TELecom:BIT8 <bit>**

[Parameter]    <bit>=<STRING PROGRAM DATA>  
               "0"        :0  
               "1"        :1  
               "01"      :0/1(Alt)

[Function]    Sets time slot bit 8.

[Screen]      Tx:8th bit of the Interface:Interface screen.

[Example use] > :SOURce:TELecom:BIT8 "0"

**:SOURce:TELecom:BIT8?**

[Parameter]    None  
 [Response]     <bit>=<STRING RESPONSE DATA>  
                   The same as :SOURce:TELecom:BIT8.  
 [Function]     Queries the setting status of the time slot bit 8.  
 [Screen]       Tx:8th bit of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:BIT8?  
                  < "0"



**:SOURce:TELecom:BSTeal?**

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:BSTeal.
- [Function] Queries the setting status of the signalling bit.
- [Screen] Tx:Bit steal of the Interface:Interface screen.
- [Restriction] The same as :SOURce:TELecom:BSTeal.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:BSTeal?  
< 0

**:SOURce:TELecom:QBIT <qbit>**

- [Parameter] <qbit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the Q bit.
- [Screen] Tx:Q bit of the Interface:Interface screen
- [Example use] > :SOURce:TELecom:QBIT "0000"

**:SOURce:TELecom:QBIT?**

- [Parameter] None
- [Response] <qbit>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:QBIT.
- [Function] Queries the setting status of the Q bit.
- [Screen] Tx:Q bit of Interface:Interface screen
- [Example use] > :SOURce:TELecom:QBIT?  
< "0000"

**:SOURce:TELecom:SABit <sabit>**

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"00000" to "11111"
- [Function] Sets the Sa bit.
- [Screen] Tx:Sa bit of Interface:Interface screen
- [Restriction] Exists some interface unit which can not perform this command.  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
(execution error)  
MU643000C : Can perform this command.
- [Example use] > :SOURce:TELecom:SABit "00000"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:SABit?

[Parameter] None  
[Response] <sabit>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:SABit.  
[Function] Queries the setting status of the Sa bit.  
[Screen] Tx:Sa bit of Interface:Interface screen  
[Restriction] The same as :SOURce:TELecom:SABit.  
If the unavailable command is executed, no response data occurs and the execution error is returned.  
[Example use] > :SOURce:TELecom:SABit?  
< "00000"

### :SOURce:TELecom:SPBit <spbit>

[Parameter] <spbit>=<STRING PROGRAM DATA>  
"000" to "111"  
[Function] Sets the SP bit.  
[Screen] Tx:SP bit of the Interface:Interface screen  
[Restriction] Exists some interface unit which can not perform this command.  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Can not perform this command.  
[Example use] > :SOURce:TELecom:SPBit "000"

### :SOURce:TELecom:SPBit?

[Parameter] None  
[Response] <sabit>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:SPBit.  
[Function] Queries the setting status of the SP bit.  
[Screen] Tx:SP bit of the Interface:Interface screen  
[Restriction] The same as :SOURce:TELecom:SPBit.  
If the unavailable command is executed, no response data occurs and the execution error is returned.  
[Example use] > :SOURce:TELecom:SPBit?  
< "000"

**:SOURce:TELecom:SBIT<numeric>,<sbit>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 16 (step 1)  
<sbit>=<STRING PROGRAM DATA>  
"000000" to "111111"  
"00000" to "11111"
- [Function] Sets Tx ST bit.
- [Screen] Tx:ST bit of the Interface:Interface screen
- [Restriction] When a value of single digit ("N") is input while <sbit> is waiting for input of the six-digit value, "\*\*\*\*\*N" is set. Here "\*\*\*\*\*" is the previous set value.  
When a value of six digits ("NOPQRS") is input while <sbit> is waiting for input of the five-digit value, "OPQRS" is set.  
Exists some interface units which cannot perform this command.  
MU643000A : Can perform this command.  
MU643000B/K : Can perform this command.  
MU643000C : Cannot perform this command.
- [Example use] To set 111111 (Bin) at HG1.  
> :SOURce:TELecom:SBIT1,"111111"

**:SOURce:TELecom:SBIT?<numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
The same as :SOURce:TELecom:SBIT.
- [Response] <sbit>=<STRING PROGRAM DATA>  
The same as :SOURce:TELecom:SBIT.
- [Function] Queries the setting status of the Tx ST bit.
- [Screen] Tx:ST bit of the Interface:Interface screen.
- [Restriction] The same as :SOURce:TELecom:SBIT.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] To query the 111111 (Bin) at HG1.  
> :SOURce:TELecom:SBIT? 1  
<"111111"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:TSFRame16 <tsframe16>

- [Parameter] <tsframe16>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the pattern of time slot 16 frame 0.
- [Screen] Tx:TS16 Frame0 xyxx of the Interface:Interface screen.
- [Restriction] Exists some interface unit which can not perform this command.  
MU643000A : Can perform this command.  
MU643000B/K : Can not perform this command.  
(execution error)  
MU643000C : Can perform this command.
- [Example use] > :SOURce:TELecom:TSFRame16 "0000"

### :SOURce:TELecom:TSFRame16?

- [Parameter] None
- [Response] <tsframe16>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:TSFRame16.
- [Function] Queries the setting status of the pattern of time slot 16 frame 0.
- [Screen] Tx:TS16 Frame0 xyxx of the Interface:Interface screen.
- [Restriction] The same as :SOURce:TELecom:TSFRame16.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:TSFRame16?  
< "0000"

### :SOURce:TELecom:SIGBit <sigbit>

- [Parameter] <sigbit>=<STRING PROGRAM DATA>  
"0000" to "1111"  
"00" to "11"  
"0" to "1"
- [Function] Sets the signalling information bit.
- [Screen] Tx:Sig. Bit of the Interface:Interface screen.
- [Restriction] When a value of single digit ("N") is input while <sigbit> is waiting for input of the four-digit value, "\*\*\*N" is set. Here "\*\*\*\*" is the previous set value.  
When a value of four-digit value ("NOPQ") is input while <sigbit> is waiting for input of a single digit value, "Q" is set.  
Exists the parameter depending on sort of the interface unit.  
MU643000A : All parameters are available.  
MU643000B/K : All parameters are available.  
MU643000C : Parameter other than "0000" to "1111" is unavailable.
- [Example use] > :SOURce:TELecom:SIGBit "0000"

### 6.3 SOURce Sub-system

#### :SOURce:TELecom:SIGBit?

[Parameter] None  
[Response] <sigbit>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:SIGBit.  
[Function] Queries the setting status of the signalling information bit.  
[Screen] Tx:Sig. Bit of the Interface:Interface screen  
[Restriction] When this item is invalid, the four digit value ("NNNN") is returned.  
[Example use] > :SOURce:TELecom:SIGBit?  
< "0000"

#### :SOURce:TELecom:VCHannel1 <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of voice channel.  
[Screen] Tx:Voice channel of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:VCHannel1 1

#### :SOURce:TELecom:VCHannel1?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:VCHannel1.  
[Function] Queries the On/Off setting status of voice channel.  
[Screen] Tx:Voice channel of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:VCHannel1?  
< 1

#### :SOURce:TELecom:VTSLot <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 98 (step 1) :MU643000A  
1 to 98 (step 1) :MU643000B/K  
1 to 31 (step 1) :MU643000C  
[Function] Sets the voice channel.  
[Screen] Tx:TSn of the Interface:Interface screen  
[Restriction] Value depends on the interface unit used.  
[Example use] > :SOURce:TELecom:VTSLot 1

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:VTSLot?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:TSN.  
[Function] Queries the setting status of voice channel.  
[Screen] Tx:TSn of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:VTSLot?  
< 1

### :SOURce:TELecom:VCHannel2 <vchannel2>

[Parameter] <vchannel2>=<CHARACTER PROGRAM DATA>  
B1 :B1  
B2 :B2  
NONE :None  
[Function] Sets voice channel for the I.430/I.430-a 192k.  
[Screen] Tx:Voice channel of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:VCHannel2 B1

### :SOURce:TELecom:VCHannel2?

[Parameter] None  
[Response] <vchannel2>=<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:VCHannel2.  
[Function] Queries the setting status of the voice channel for the I.430/I.430-a 192k.  
[Screen] Tx:Voice channel of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:VCHannel2?  
< B1

### :SOURce:TELecom:ITSLot <itslot>

[Parameter] <itslot>=<STRING PROGRAM DATA>  
"00000000" to "11111111"  
[Function] Sets the idle time slot.  
[Screen] Tx:Idle time slot of the Interface:Interface screen  
[Example use] > :SOURce:TELecom:ITSLot "00000000"

**:SOURce:TELecom:ITSLot?**

[Parameter] None  
 [Response] <itslot>=<STRING RESPONSE DATA>  
                  The same as :SOURce:TELecom:ITSLot.  
 [Function] Queries the setting status of idle time slot.  
 [Screen] Tx:Idle time slot of the Interface:Interface screen  
 [Example use] > :SOURce:TELecom:ITSLot?  
                  <"00000000"

**:SOURce:TELecom:CHARacter:STAddress <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 2046 (step 1)  
 [Function] Sets the first address of character pattern.  
 [Screen] Character:Start address of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:CHARacter:STAddress 0

**:SOURce:TELecom:CHARacter:STAddress?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :SOURce:TELecom:CHARacter:STAddress.  
 [Function] Queries the setting status of the first address of character pattern.  
 [Screen] Character:Start address of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:CHARacter:STAddress?  
                  < 0

**:SOURce:TELecom:CHARacter:SPAddress <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 2047 (step 1)  
 [Function] Sets the stop address of character pattern.  
 [Screen] Character:Stop address of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:CHARacter:SPAddress 1

**:SOURce:TELecom:CHARacter:SPAddress?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :SOURce:TELecom:CHARAacter:SPAddress.  
 [Function] Queries the setting status of the stop address of character pattern.  
 [Screen] Character:Stop address of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:CHARacter:SPAddress?  
                  < 1

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELeCom:CHARacter:BOUNdary <boundary>

[Parameter] <boundary>=<STRING PROGRAM DATA>

"BIT4" :4bit  
"BIT5" :5bit  
"BIT6" :6bit  
"BIT7" :7bit  
"BIT8" :8bit

[Function] Sets the number of bits to use.

[Screen] Character:Boundary of Measure:Error/Alarm screen

[Example use] > :SOURce:TELeCom:CHARacter:BOUNdary "BIT5"

### :SOURce:TELeCom:CHARacter:BOUNdary?

[Parameter] None

[Response] <boundary>=<STRING RESPONSE DATA>

The same as :SOURce:TELeCom:CHARacter:BOUNdary.

[Function] Queries the setting status of the number of bits to use.

[Screen] Character:Boundary of Measure:Error/Alarm screen

[Example use] > :SOURce:TELeCom:CHARacter:BOUNdary?  
< "BIT5"

### :SOURce:TELeCom:CHARacter:SHIfT <shift>

[Parameter] <shift>=<STRING PROGRAM DATA>

"-7" :-7 "+1" :+1  
"-6" :-6 "+2" :+2  
"-5" :-5 "+3" :+3  
"-4" :-4 "+4" :+4  
"-3" :-3 "+5" :+5  
"-2" :-2 "+6" :+6  
"-1" :-1 "+7" :+7

[Function] Sets the bit shift in units of byte.

[Screen] Character:Shift of Measure:Error/Alarm screen

[Example use] > :SOURce:TELeCom:CHARacter:SHIfT "-7"

### :SOURce:TELeCom:CHARacter:INVert

[Parameter] None

[Function] Sets the logic inversion.

[Screen] Character:Invert of Measure:Error/Alarm screen

[Example use] > :SOURce:TELeCom:CHARacter:INVert

#### **:SOURce:TELecom:CHARacter:REVerse**

[Parameter] None  
[Function] Sets inversion of MSB/LSB.  
[Screen] Character:Reverse of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:CHARacter:REVerse

#### **:SOURce:TELecom:CHARacter:DATA <address>,<worddata>**

[Parameter] <address>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 1023 (step 1)  
This is the address when calculation is performed assuming that  
Boundary is 8 bits.  
<worddata>=<STRING PROGRAM DATA>  
"00" to "FF"  
This is the 8-bit input regardless of the Boundary.  
[Function] Sets the character pattern.  
[Screen] Character of Measure:Error/Alarm screen  
[Example use] When setting FF (H) to address 0:  
> :SOURce:TELecom:CHARacter:DATA 0,"FF"

#### **:SOURce:TELecom:CHARacter:DATA? <address>**

[Parameter] <address>=<DECIMAL NUMERIC PROGRAM DATA>  
The same as :SOURce:TELecom:CHARacter:DATA.  
[Response] <worddata>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:CHARacter:DATA.  
[Function] Queries the setting status of the character pattern.  
[Screen] Character of Measure:Error/Alarm screen  
[Example use] When querying pattern (FF(H)) of address 0  
> :SOURce:TELecom:CHARacter:DATA? 0  
< "FF"

## SECTION 6 REMOTE COMMANDS

**:SOURce:TELecom:CHARacter:MDATa <address1>,<address2>,<worddata>**

- [Parameter]    <address1>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 1023 (step 1)  
                  This is the address when calculation is performed assuming that  
                  Boundary is 8 bits.  
  <address2>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 1023 (step 1)  
                  This is the address when calculation is performed assuming that  
                  Boundary is 8 bits.  
  <worddata>=<STRING PROGRAM DATA>  
                  "XX0,[XX1]...[XX1023]"        (XX0 to XX1023 : 00 to FF)  
                  This is the 8-bit input regardless of the Boundary.
- [Function]      Sets character pattern of the specified range.  
[Screen]          Character of Measure:Error/Alarm screen  
[Restriction]     Limitations are both <address1>=<<address2> and <address2>  
                  <(<Address1> + 158).  
[Example use]     When setting 001122334455 (H) to the addresses 0 to 5:  
                  > :SOURce:TELecom:CHARacter:MDATa 0,5,"00,11,22,33,44,55"

**:SOURce:TELecom:CHARacter:MDATa? <address1>,<address2>**

- [Parameter]    <address1>=<DECIMAL NUMERIC PROGRAM DATA>  
                  The same as :SOURce:TELecom:CHARacter:MDATa.  
  <address2>=<DECIMAL NUMERIC PROGRAM DATA>  
                  The same as :SOURce:TELecom:CHARacter:MDATa.  
[Response]      <worddata>=<STRING RESPONSE DATA>  
                  The same as :SOURce:TELecom:CHARacter:MDATa.  
[Function]       Queries the setting status of the character pattern of the specified range.  
[Screen]          Character of Measure:Error/Alarm screen.  
[Restriction]     Limitation is that <address1>=<<address2>.  
[Example use]    When querying the character (001122334455 (H)) at the addresses 0 to 5:  
                  > :SOURce:TELecom:CHARacter:MDATa? 0,5  
                  <"00,11,22,33,44,55"

**:SOURce:TELecom:CHARacter:ALL0**

- [Parameter]    None  
[Function]      Sets all the bits to 0.  
[Screen]        Character of Measure:Error/Alarm screen.  
[Example use]   > :SOURce:TELecom:CHARacter:ALL0

**:SOURce:TELeom:CHARacter:ALL1**

[Parameter] None  
 [Function] Sets all the bits to 1.  
 [Screen] Character of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELeom:CHARacter:ALL1

**:SOURce:TELeom:FRElAy:DLCI <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   16 to 991 (step 1)  
 [Function] Sets the DLCI value for the test packet  
 [Screen] DLCI of Measure:Frame relay screen  
 [Example use] > :SOURce:TELeom:FRElAy:DLCI 16

**:SOURce:TELeom:FRElAy:DLCI?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SOURce:TELeom:FRElAy:DLCI.  
 [Function] Queries the setting status of the DLCI value for the test packet.  
 [Screen] DLCI of Measure:Frame relay screen  
 [Example use] > :SOURce:TELeom:FRElAy:DLCI?  
                   < 16

**:SOURce:TELeom:FRElAy:ITIMe <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   5 to 30 (step 1)  
 [Function] Set the send interval (in seconds) for the test packet.  
 [Screen] Interval time of Measure:Frame relay screen  
 [Example use] > :SOURce:TELeom:FRElAy:ITIMe 5

**:SOURce:TELeom:FRElAy:ITIMe?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SOURce:TELeom:FRElAy:ITIMe.  
 [Function] Queries the setting status of the send interval (in seconds) for test packet.  
 [Screen] Interval time of Measure:Frame relay screen  
 [Example use] > :SOURce:TELeom:FRElAy:ITIMe?  
                   < 16

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:ERRor:TYPE <type>

[Parameter] <type>==<CHARACTER PROGRAM DATA>  
BIT :Bit  
BCODE :Bit + Code  
CODE :Code  
[Function] Sets type of error insertion.  
[Screen] Cond. 1:ERR type of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:ERRor:TYPE BIT

### :SOURce:TELecom:ERRor:TYPE?

[Parameter] None  
[Response] <type>==<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:ERRor:TYPE.  
[Function] Queries the setting status of the type of error insertion.  
[Screen] Cond. 1:ERR type of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:ERRor:TYPE ?  
< BIT

### :SOURce:TELecom:ERRor:ERATe[:TYPE] <type>

[Parameter] <type>==<CHARACTER PROGRAM DATA>  
SINGle :Single  
REPeat :Repeat(1s)  
CYCLic :Cyclic  
[Function] Sets the timing of error insertion.  
[Screen] Cond. 1:Ins. rate of Measure:Error/Alarm screen.  
[Example use] > :SOURce:TELecom:ERRor:ERATe SINGle

### :SOURce:TELecom:ERRor:ERATe[:TYPE]?

[Parameter] None  
[Response] <type>==<CHARACTER RESPONSE DATA>  
The same as :SOURce:TELecom:ERRor:ERATe[:TYPE].  
[Function] Queries the setting status of the timing of error insertion.  
[Screen] Cond. 1:Ins. rate of Measure:Error/Alarm screen.  
[Example use] > :SOURce:TELecom:ERRor:ERATe[:TYPE]?  
< SING

**:SOURce:TELecom:ERRor:ERATe:RATE <m>,<n>**

[Parameter]	<m>=<STRING PROGRAM DATA>
	"1" :1.0 "3" :3.0
	"1_1" :1.1 "4" :4.0
	"1_3" :1.3 "5" :5.0
	"1_5" :1.5 "6" :6.0
	"1_7" :1.7 "7" :7.0
	"2" :2.0 "8" :8.0
	"2_5" :2.5 "9" :9.0
	<n>=<DECIMAL NUMERIC PROGRAM DATA>
	1 to 7 (step 1)
[Function]	Sets the error insertion rate (mE-n).
[Screen]	Cond. 1:Ins. rate of Measure:Error/Alarm screen
[Example use]	When setting the error insertion rate to 1.0E-3: > :SOURce:TELecom:ERRor:ERATe:RATE "1",3

**:SOURce:TELecom:ERRor:ERATe:RATE?**

[Parameter]	None
[Response]	<m>=<STRING RESPONSE DATA>
	The same as :SOURce:TELecom:ERRor:ERATe:RATE.
	<n>=<DECIMAL NUMERIC PROGRAM DATA>
	The same as :SOURce:TELecom:ERRor:ERATe:RATE.
[Function]	Queries the setting status of the error insertion rate (mE-n).
[Screen]	Cond. 1:Ins. rate of Measure:Error/Alarm screen
[Example use]	When querying the error insertion rate (1.0E-3): > :SOURce:TELecom:ERRor:ERATe:RATE? < "1",3

**:SOURce:TELecom:ERRor:STARt**

[Parameter]	None
[Function]	Sets start of error insertion.
[Screen]	Cond. 1:ERR of Measure:Error/Alarm screen
[Restriction]	The execution error occurs and this function is ignored when the error insertion is in progress.
[Example use]	> :SOURce:TELecom:ERRor:STARt

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:ERRor:STOP

[Parameter] None  
[Function] Sets stop of error insertion.  
[Screen] Cond. 1:ERR of the Measure:Error/Alarm  
[Example use] > :SOURce:TELecom:ERRor:STOP

### :SOURce:TELecom:ERRor:STATe?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
    0 :Error insertion is being stopped.  
    1 :Error insertion is being performed.  
[Function] Queries the status of error insertion.  
[Screen] None  
[Example use] > :SOURce:TELecom:ERRor:STATe?  
    < 1

### :SOURce:TELecom:FERRor

[Parameter] None  
[Function] Instructs the error insertion to the DT sequence of frame relay test.  
[Function] FR ERR Insert of Measure:Frame relay screen  
[Example use] > :SOURce:TELecom:FERRor

### :SOURce:TELecom:ALARm:AIS <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
    OFF or 0 :Off  
    ON or 1 :On  
[Function] Sets the On/Off of AIS insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen.  
[Example use] > :SOURce:TELecom:ALARm:AIS 1

### :SOURce:TELecom:ALARm:AIS?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
    The same as :SOURce:TELecom:ALARm:AIS.  
[Function] Queries the On/Off setting status of AIS insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:ALARm:AIS?  
    < 1

**:SOURce:TELecom:ALARm:SA <boolean>**

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
                  OFF or 0 :Off  
                  ON or 1 :On
- [Function] Sets the On/Off of SA insertion.
- [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Restriction] Exists some interface unit which can not perform this command.  
                  MU643000A : Can perform this command.  
                  MU643000B/K : Can perform this command.  
                  MU643000C : Can not perform this command.
- [Example use] > :SOURce:TELecom:ALARm:SA 1

**:SOURce:TELecom:ALARm:SA?**

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :SOURce:TELecom:ALARm:SA.
- [Function] Queries the On/Off setting status of SA insertion.
- [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Restriction] The same as :SOURce:TELecom:ALARm:SA.  
                  Execution error is set and response data is nothing, when the interface unit  
                  that this command is unavailable performs it.
- [Example use] > :SOURce:TELecom:ALARm:SA?  
                  < 1

**:SOURce:TELecom:ALARm:RAI <boolean>**

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
                  OFF or 0 :Off  
                  ON or 1 :On
- [Function] Sets the On/Off of RAI insertion.
- [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Example use] > :SOURce:TELecom:ALARm:RAI 1

**:SOURce:TELecom:ALARm:RAI?**

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :SOURce:TELecom:ALARm:RAI.
- [Function] Queries the On/Off setting status of RAI insertion.
- [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen.
- [Example use] > :SOURce:TELecom:ALARm:RAI?  
                  < 1

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:ALARm:XA <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of XA insertion.

[Screen] Alarm/Signal Ins. of Measure>Error/Alarm screen

[Example use] > :SOURce:TELecom:ALARm:XA 1

### :SOURce:TELecom:ALARm:XA?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:ALARm:XA.  
[Function] Queries the On/Off setting status of XA insertion.  
[Screen] Alarm/Signal Ins. of Measure>Error/Alarm screen  
[Example use] > :SOURce:TELecom:ALARm:XA?  
< 1

### :SOURce:TELecom:ALARm:HAIS <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of HG AIS insertion.  
[Screen] Alarm/Signal Ins. Of Measure>Error/Alarm screen  
[Restriction] The command may be unavailable depending on the interface unit to be used.  
MU643000A : Available  
MU643000B/K : Available  
MU643000C : Unavailable (execution error)  
[Example use] > :SOURce:TELecom:ALARm:HAIS 1

### :SOURce:TELecom:ALARm:HAIS?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
: The same as :SOURce:TELecom:ALARm:HAIS.  
[Function] Queries the On/Off setting status of HG AIS insertion.  
[Screen] Alarm/Signal Ins. Of Measure>Error/Alarm screen  
[Restriction] : The same as :SOURce:TELecom:ALARm:HAIS.  
If the unavailable command is executed, no response data occurs and the execution error is returned.  
[Example use] > :SOURce:TELecom:ALARm:HAIS?  
< 1

**:SOURce:TELecom:ALARm:BAIS <boolean>**

- [Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0 :Off  
                   ON or 1 :On
- [Function]       Sets the On/Off setting status of BAIS insertion.
- [Screen]          Alarm/Signal Ins. Of Measure:Error/Alarm screen
- [Restriction]     The command may be unavailable depending on the interface unit to be used.  
                   MU643000A : Available  
                   MU643000B/K : Available  
                   MU643000C : Unavailable (execution error)
- [Example use]    > :SOURce:TELecom:ALARm:BAIS 1

**:SOURce:TELecom:ALARm:BAIS?**

- [Parameter]      None
- [Response]       <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                   :The same as :SOURce:TELecom:ALARm:BAIS.
- [Function]       Queries the On/Off setting status of BAIS insertion.
- [Screen]          Alarm/Signal Ins. Of Measure:Error/Alarm screen
- [Restriction]     :The same as :SOURce:TELecom:ALARm:BAIS.  
                   If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use]    > :SOURce:TELecom:ALARm:BAIS?  
                   < 1

**:SOURce:TELecom:SIGNAl:ER <boolean>**

- [Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0 :Off  
                   ON or 1 :On
- [Function]       Sets the On/Off of ER insertion.
- [Screen]          Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Example use]    > :SOURce:TELecom:SIGNAl:ER 1

**:SOURce:TELecom:SIGNAl:ER?**

- [Parameter]      None
- [Response]       <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                   Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Function]       Queries the On/Off setting status of ER insertion.
- [Screen]          Alarm/Signal Ins. of Measure:Error/Alarm screen
- [Example use]    > :SOURce:TELecom:SIGNAl:ER?  
                   < 1

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:SIGNal:RS <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of RS insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:SIGNal:RS 1

### :SOURce:TELecom:SIGNal:RS?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:SIGNal:RS.  
[Function] Queries the On/Off setting status of RS insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:SIGNal:RS?  
< 1

### :SOURce:TELecom:SIGNal:LLB <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of LLB insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:SIGNal:LLB 1

### :SOURce:TELecom:SIGNal:LLB?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:SIGNal:LLB.  
[Function] Queries the On/Off setting status of LLB insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:SIGNal:LLB?  
< 1

### :SOURce:TELecom:SIGNal:RLB <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of RLB insertion.  
[Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
[Example use] > :SOURce:TELecom:SIGNal:RLB 1

**:SOURce:TELecom:SIGNAl:RLB?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:SIGNAl:RLB.  
 [Function] Queries the On/Off setting status of RLB insertion.  
 [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:SIGNAl:RLB?  
     < 1

**:SOURce:TELecom:SIGNAl:C <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the On/Off of C insertion.  
 [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen.  
 [Example use] > :SOURce:TELecom:SIGNAl:C 1

**:SOURce:TELecom:SIGNAl:C?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:SIGNAl:C.  
 [Function] Queries the On/Off setting status of C insertion.  
 [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:SIGNAl:C?  
     < 1

**:SOURce:TELecom:SIGNAl:IFT0 <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the On/Off of IF0T insertion.  
 [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:SIGNAl:IFT0 1

**:SOURce:TELecom:SIGNAl:IFT0?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SOURce:TELecom:SIGNAl:IFT0.  
 [Function] Queries the On/Off setting status of IF0T insertion.  
 [Screen] Alarm/Signal Ins. of Measure:Error/Alarm screen  
 [Example use] > :SOURce:TELecom:SIGNAl:IFT0?  
     < 1

## SECTION 6 REMOTE COMMANDS

**:SOURce:TELecom:WTRace:IC0De <icode>**

[Parameter]    <icode>=<STRING PROGRAM DATA>  
               "00000000" to "11111111"  
               "00000000" to "1111111"  
               "000000" to "111111"  
               "00000" to "11111"

[Function]    Sets the code that is sent during idling.

[Screen]      Condition:Idle code of Measure:Word trace screen

[Example use] > :SOURce:TELecom:WTRace:IC0De "00000000"

**:SOURce:TELecom:WTRace:IC0De?**

[Parameter]    None  
[Response]     <icode>=<STRING RESPONSE DATA>  
                 The same as :SOURce:TELecom:WTRace:IC0De.  
[Function]      Querying the setting state of the code that is sent during idling.  
[Screen]        Condition:Idle code of Measure:Word trace screen.  
[Example use] > :SOURce:TELecom:WTRace:IC0De?  
                 < "00000000"

**:SOURce:TELecom:WTRace:SDATa <sdata>**

[Parameter]    <sdata>=<STRING PROGRAM DATA>  
                "PROGram"            :Program  
                "FPATtern"           :FOX Pattern  
[Function]      Sets the send pattern.  
[Screen]        Condition:Send data of Measure:Word trace screen  
[Example use] > :SOURce:TELecom:WTRace:SDATa "PROGram"

**:SOURce:TELecom:WTRace:SDATa?**

[Parameter]    None  
[Response]     <sdata>=<STRING RESPONSE DATA>  
                 The same as :SOURce:TELecom:WTRace:SDATa.  
[Function]      Queries the setting status of the send pattern.  
[Screen]        Condition:Send data of Measure:Word trace screen  
[Example use] > :SOURce:TELecom:WTRace:SDATa?  
                 < "PROG"

**:SOURce:TELecom:WTRace:SMEThod <smethod>**

[Parameter]      <smethod>=<STRING PROGRAM DATA>  
                   "MANual"            :Manual  
                   "SHOT1"            :1 Shot

[Function]       Sets the method of sending pattern.

[Screen]          Condition:Send method of Measure:Word trace screen

[Example use]     > :SOURce:TELecom:WTRace:SMEThod "MANual"

**:SOURce:TELecom:WTRace:SMEThod?**

[Parameter]       None

[Response]       <smethod>=<STRING RESPONSE DATA>  
                   The same as :SOURce:TELecom:WTRace:SMEThod.

[Function]       Queries the setting status of the method of sending pattern.

[Screen]          Condition:Send method of Measure:Word trace screen.

[Example use]     > :SOURce:TELecom:WTRace:SMEThod?  
                   < "MAN"

**:SOURce:TELecom:WTRace:STADdress <numeric>**

[Parameter]       <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   0 to 262142 (step 1)  
                   This is the address when calculation is performed assuming that  
                   Boundary is 4 bit.

[Function]       Sets the start address of the program pattern.

[Screen]          PRGM Data:Start address of Measure:Word trace screen

[Example use]     > :SOURce:TELecom:WTRace:STADdress 0

**:SOURce:TELecom:WTRace:STADdress?**

[Parameter]       None

[Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SOURce:TELecom:WTRace:STADdress.

[Function]       Queries the setting status of the start address of the program pattern.

[Screen]          PRGM Data:Start address of Measure:Word trace screen

[Example use]     > :SOURce:TELecom:WTRace:STADdress?  
                   < 0

## SECTION 6 REMOTE COMMANDS

### **:SOURce:TELecom:WTRace:SPAddress <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 262143 (step 1)  
This is the address when calculation is performed assuming that Boundary is 4 bit.
- [Function] Sets the stop address of the program pattern.
- [Screen] PRGM Data:Stop address of Measure:Word trace screen.
- [Example use] > :SOURce:TELecom:WTRace:SPAddress 1

### **:SOURce:TELecom:WTRace:SPAddress?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SOURce:TELecom:WTRace:SPAddress.
- [Function] Queries the setting status of the stop address of the program pattern.
- [Screen] PRGM Data:Stop address of Measure:Word trace screen
- [Example use] > :SOURce:TELecom:WTRace:SPAddress?  
< 1

### **:SOURce:TELecom:WTRace:BOUNdary <boundary>**

- [Parameter] <boundary>=<STRING PROGRAM DATA>  
"BIT4" :4bit  
"BIT5" :5bit  
"BIT6" :6bit  
"BIT7" :7bit  
"BIT8" :8bit
- [Function] Sets the number of bits to use.
- [Screen] PRGM Data:Boundary of Measure:Word trace screen
- [Example use] > :SOURce:TELecom:WTRace:BOUNdary "BIT5"

### **:SOURce:TELecom:WTRace:BOUNdary?**

- [Parameter] None
- [Response] <boundary>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:WTRace:BOUNdary.
- [Function] Queries the setting status of the number of bits to use.
- [Screen] PRGM Data:Boundary of Measure:Word trace screen
- [Example use] > :SOURce:TELecom:WTRace:BOUNdary?  
< "BIT5"

**:SOURce:TELecom:WTRace:SHIFt <shift>**

[Parameter] <shift>=<STRING PROGRAM DATA>

"-7"	:-7	"+1"	:+1
"-6"	:-6	"+2"	:+2
"-5"	:-5	"+3"	:+3
"-4"	:-4	"+4"	:+4
"-3"	:-3	"+5"	:+5
"-2"	:-2	"+6"	:+6
"-1"	:-1	"+7"	:+7

[Function] Sets the bit shift.

[Screen] PRGM Data:Shift of Measure:Word trace screen

[Example use] > :SOURce:TELecom:WTRace:SHIFt "-7"

**:SOURce:TELecom:WTRace:INVert**

[Parameter] None

[Function] Sets the logic inversion.

[Screen] PRGM Data:Invert of Measure:Word trace screen.

[Example use] > :SOURce:TELecom:WTRace:INVert

**:SOURce:TELecom:WTRace:REVerse**

[Parameter] None

[Function] Sets the reversion of MSB/LSB.

[Screen] PRGM Data:Reverse of Measure:Word trace screen

[Example use] > :SOURce:TELecom:WTRace:REVerse

**:SOURce:TELecom:WTRace:DATA <address>,<worddata>**

[Parameter] <address>=<DECIMAL NUMERIC PROGRAM DATA>

0 to 131071 (step 1)

This is the address when calculation is performed assuming that Boundary is 8 bits.

<worddata>=<STRING PROGRAM DATA>

"00" to "FF"

This is the 8-bit input regardless of the Boundary.

[Function] Sets word pattern.

[Screen] PRGM Data of Measure:Word trace screen

[Example use] When setting FF (H) to address 0

> :SOURce:TELecom:WTRace:DATA 0,"FF"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:WTRace:DATA? <address>

- [Parameter] <address>=<DECIMAL NUMERIC PROGRAM DATA>  
The same as :SOURce:TELecom:WTRace:DATA.
- [Response] <worddata>=<STRING RESPONSE DATA>  
The same as :SOURce:TELecom:WTRace:DATA.
- [Function] Queries the setting status of the word pattern.
- [Screen] PRGM Data of Measure:Word trace screen
- [Example use] When querying the word pattern (FF(H)) at address 0  
> :SOURce:TELecom:WTRace:DATA? 0  
< "FF"

### :SOURce:TELecom:WTRace:MDATa <address1>,<address2>,<worddata>

- [Parameter] <address1>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 131071 (step 1)  
This is the address when calculation is performed assuming that  
Boundary is 8 bits.
- <address2>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 131071 (step 1)  
This is the address when calculation is performed assuming that  
Boundary is 8 bits.
- <worddata>=<STRING PROGRAM DATA>  
"XX0[XX1]...[XX131070]" (XX0 to XX131070 : 00 to FF)  
This is the 8-6 bit input regardless of the Boundary.
- [Function] Sets the word pattern of the specified range.
- [Screen] PRGM Data of Measure:Word trace screen
- [Restriction] Limitations are both <address1>=<address2> and <address2><(<Address1> + 158).
- [Example use] When setting 001122334455(H) to the addresses 0 to 5:  
> :SOURce:TELecom:WTRace:MDATa 0,5,"00,11,22,33,44,55"

## 6.3 SOURce Sub-system

### :SOURce:TELecom:WTRace:MDATa? <address1>,<address2>

[Parameter]	<address1>=<DECIMAL NUMERIC PROGRAM DATA> The same as :SOURce:TELecom:WTRace:MDATa.
	<address2>=<DECIMAL NUMERIC PROGRAM DATA> The same as :SOURce:TELecom:WTRace:MDATa.
[Response]	<worddata>=<STRING RESPONSE DATA> The same as :SOURce:TELecom:WTRace:MDATa.
[Function]	Queries the setting status of the word pattern of the specified range.
[Screen]	PRGM Data of Measure:Word trace screen
[Restriction]	Limitation is <address1>=<<address2>.
[Example use]	When querying the word pattern (00, 11, 22, 33, 44 and 55 (H)) at the addresses 0 to 5. > :SOURce:TELecom:WTRace:MDATa? 0,5 <"00,11,22,33,44,55"

### :SOURce:TELecom:WTRace:ALL0

[Parameter]	None
[Function]	Sets all the bits to 0.
[Screen]	PRGM Data of Measure:Word trace screen
[Example use]	> :SOURce:TELecom:WTRace:ALL0

### :SOURce:TELecom:WTRace:ALL1

[Parameter]	None
[Function]	Sets all the bits to 1.
[Screen]	PRGM Data of Measure:Word trace screen
[Example use]	> :SOURce:TELecom:WTRace:ALL1

### :SOURce:TELecom:WTRace:TDA

[Parameter]	None
[Function]	Sets copying from trace data to program data.
[Screen]	PRGM Data:Trace data → of Measure:Word trace screen.
[Example use]	> :SOURce:TELecom:WTRace:TDA

### :SOURce:TELecom:WTRace:STARt

[Parameter]	None
[Function]	Sets start of sending the program pattern for the Word trace measurement.
[Screen]	Area for operating instruction button.
[Restriction]	The execution error occurs and this function is ignored when program pattern is being sent out.
[Example use]	> :SOURce:TELecom:WTRace:STARt

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:WTRace:STOP

[Parameter] None  
[Function] Sets stop of sending the program pattern for the Word trace measurement.  
[Screen] Area for operating instruction button  
[Example use] > :SOURce:TELecom:WTRace:STOP

### :SOURce:TELecom:WTRace:STATE?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
              0 :Under stopping to send the program pattern  
              1 :Under sending the program pattern  
[Function] Queries the program pattern sending status for the Word trace measurement.  
[Screen] None  
[Example use] > :SOURce:TELecom:WTRace:STATE?  
              < 1

### :SOURce:TELecom:CAS:SIGBit <numeric>, <sigbit>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
              1 to 30 (step 1)  
              <sigbit>=<STRING PROGRAM DATA>  
              "0000" to "1111"  
              "00" to "11"  
              "0" to "1"  
[Function] Sets sending signaling bits.  
[Screen] CAS:Signaling bit sending of Measure:Error/Alarm screen  
[Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)  
If one digit ("N") is input during <sigbit> waits for four-digit input, "\*\*\*\*N" is assumed.  
Where, "\*\*\*\*" is the previous setting value.  
If four digits ("NOPQ") are input when <sigbit> waits for one-digit input, "Q" is assumed.  
[Example use] Setting CH01 to 1111(Bin):  
              > :SOURce:TELecom:CAS:SIGBit 1, "1111"

**:SOURce:TELecom:CAS:SIGBit? <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   :The same as :SOURce:TELecom:CAS:SIGBit.
- [Response]    <sigbit>=<STRING RESPONSE DATA>  
                   :The same as :SOURce:TELecom:CAS:SIGBit.
- [Function]    Queries the setting status of the sending signaling bits.
- [Screen]      CAS:Signaling bit sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.  
                   If this item is invalid, four-digit value ("NNNN") is returned.
- [Example use] Querying 1111(Bin) from CH01:  
                   > :SOURce:TELecom:CAS:SIGBit? 1  
                   < "1111"

**:SOURce:TELecom:FAS:DlBit <boolean>**

- [Parameter]    <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0  
                   ON or 1
- [Function]    Sets DL bit to ON/OFF.
- [Screen]      FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
                   (Execution error)
- [Example use] > :SOURce:TELecom:FAS:DlBit 0

**:SOURce:TELecom:FAS:DlBit?**

- [Parameter]    None
- [Response]    <boolean>=<BOOLEAN RESPONSE DATA>  
                   :The same as :SOURce:TELecom:FAS:DlBit.
- [Function]    Queries the setting status of the DL bit ON/OFF.
- [Screen]      FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:DlBit?  
                   < 0

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:FAS:DLBiT:PATTern <dlbit>

- [Parameter] <dlbit>=<STRING PROGRAM DATA>  
"0000000000000000" to "1111111111111111"
- [Function] Sets the DL bit.
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:DLBiT:PATTern "1111111101010100"

### :SOURce:TELecom:FAS:DLBiT:PATTern?

- [Parameter] None
- [Response] <dlbit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:DLBiT:PATTern.
- [Function] Queries the setting status of the DL bit.
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:DLBiT:PATTern?  
< "1111111101010100"

### :SOURce:TELecom:FAS:SMF1:SA4 <sabit>

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the SSM bit (SMF1, Sa4).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA4 "0000"

### :SOURce:TELecom:FAS:SMF1:SA4?

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:SMF1:SA4.
- [Function] Queries the setting status of the SSM bit (SMF1, Sa4).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA4?  
< "0000"

**:SOURce:TELecon:FAS:SMF1:SA5 <sabit>**

- [Parameter]      <sabit>=<STRING PROGRAM DATA>  
                   "0000" to "1111"
- [Function]       Sets the SSM bit (SMF1, Sa5).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, the command is unavailable.  
                   (Execution error)
- [Example use]    > :SOURce:TELecon:FAS:SMF1:SA5 "0000"

**:SOURce:TELecon:FAS:SMF1:SA5?**

- [Parameter]       None
- [Response]       <sabit>=<STRING RESPONSE DATA>  
                   :The same as :SOURce:TELecon:FAS:SMF1:SA5.
- [Function]       Queries the setting status of the SSM bit (SMF1, Sa5).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, no response data occurs and the  
                   execution error is returned.
- [Example use]    > :SOURce:TELecon:FAS:SMF1:SA5?  
                   <"0000"

**:SOURce:TELecon:FAS:SMF1:SA6 <sabit>**

- [Parameter]       <sabit>=<STRING PROGRAM DATA>  
                   "0000" to "1111"
- [Function]       Sets the SSM bit (SMF1, Sa6).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, the command is unavailable.  
                   (Execution error)
- [Example use]    > :SOURce:TELecon:FAS:SMF1:SA6 "0000"

**:SOURce:TELecon:FAS:SMF1:SA6?**

- [Parameter]       None
- [Response]       <sabit>=<STRING RESPONSE DATA>  
                   :The same as :SOURce:TELecon:FAS:SMF1:SA6.
- [Function]       Queries the setting status of the SSM bit (SMF1, Sa6).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, no response data occurs and the  
                   execution error is returned.
- [Example use]    > :SOURce:TELecon:FAS:SMF1:SA6?  
                   <"0000"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:FAS:SMF1:SA7 <sabit>

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the SSM bit (SMF1, Sa7).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA7 "0000"

### :SOURce:TELecom:FAS:SMF1:SA7?

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:SMF1:SA7.
- [Function] Queries the setting status of the SSM bit (SMF1, Sa7).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA7?  
<"0000"

### :SOURce:TELecom:FAS:SMF1:SA8 <sabit>

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the SSM bit (SMF1, Sa8).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA8 "0000"

### :SOURce:TELecom:FAS:SMF1:SA8?

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:SMF1:SA8.
- [Function] Queries the setting status of the SSM bit (SMF1, Sa8).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF1:SA8?  
<"0000"

**:SOURce:TELecom:FAS:SMF2:SA4 <sabit>**

- [Parameter]      <sabit>=<STRING PROGRAM DATA>  
                   "0000" to "1111"
- [Function]       Sets the SSM bit (SMF2, Sa4).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, the command is unavailable.  
                   (Execution error)
- [Example use]    > :SOURce:TELecom:FAS:SMF2:SA4 "0000"

**:SOURce:TELecom:FAS:SMF2:SA4?**

- [Parameter]       None
- [Response]       <sabit>=<STRING RESPONSE DATA>  
                   :The same as :SOURce:TELecom:FAS:SMF2:SA4.
- [Function]       Queries the setting status of the SSM bit (SMF2, Sa4).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use]    > :SOURce:TELecom:FAS:SMF2:SA4?  
                   <"0000"

**:SOURce:TELecom:FAS:SMF2:SA5 <sabit>**

- [Parameter]       <sabit>=<STRING PROGRAM DATA>  
                   "0000" to "1111"
- [Function]       Sets the SSM bit (SMF2, Sa5).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, the command is unavailable.  
                   (Execution error)
- [Example use]    > :SOURce:TELecom:FAS:SMF2:SA5 "0000"

**:SOURce:TELecom:FAS:SMF2:SA5?**

- [Parameter]       None
- [Response]       <sabit>=<STRING RESPONSE DATA>  
                   The same as :SOURce:TELecom:FAS:SMF2:SA5.
- [Function]       Queries the setting status of the SSM bit (SMF2, Sa5).
- [Screen]          FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction]     If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use]    > :SOURce:TELecom:FAS:SMF2:SA5?  
                   <"0000"

## SECTION 6 REMOTE COMMANDS

### :SOURce:TELecom:FAS:SMF2:SA6 <sabit>

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the SSM bit (SMF2, Sa6).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA6 "0000"

### :SOURce:TELecom:FAS:SMF2:SA6?

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:SMF2:SA6.
- [Function] Queries the setting status of the SSM bit (SMF2, Sa6).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA6?  
<"0000"

### :SOURce:TELecom:FAS:SMF2:SA7 <sabit>

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
"0000" to "1111"
- [Function] Sets the SSM bit (SMF2, Sa7).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
(Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA7 "0000"

### :SOURce:TELecom:FAS:SMF2:SA7?

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
:The same as :SOURce:TELecom:FAS:SMF2:SA7.
- [Function] Queries the setting status of the SSM bit (SMF2, Sa7).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA7?  
<"0000"

**:SOURce:TELecom:FAS:SMF2:SA8 <sabit>**

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
               "0000" to "1111"
- [Function] Sets the SSM bit (SMF2, Sa8).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
                  (Execution error)
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA8 "0000"

**:SOURce:TELecom:FAS:SMF2:SA8?**

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
               :The same as :SOURce:TELecom:FAS:SMF2:SA8.
- [Function] Queries the setting status of the SSM bit (SMF2, Sa8).
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SMF2:SA8?  
               <"0000"

**:SOURce:TELecom:FAS:SABit <sabit>**

- [Parameter] <sabit>=<STRING PROGRAM DATA>  
               "00000" to "11111"
- [Function] Sets the Sa bit.
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
                  (Execution error)
- [Example use] > :SOURce:TELecom:FAS:SABit "00000"

**:SOURce:TELecom:FAS:SABit?**

- [Parameter] None
- [Response] <sabit>=<STRING RESPONSE DATA>  
               :The same as :SOURce:TELecom:FAS:SABit.
- [Function] Queries the setting status of the Sa bit.
- [Screen] FAS:Tx sending of Measure:Error/Alarm screen
- [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.
- [Example use] > :SOURce:TELecom:FAS:SABit?  
               <"00000"

## SECTION 6 REMOTE COMMANDS

### 6.4 SENSe Sub-system

---

#### :SENSe:MTYPe <mtype>

[Parameter] <mtype>=<CHARACTER PROGRAM DATA>

EALarm	:Error/Alarm
FRELay	:Frame relay
DELay	:Delay
FREQUency	:Frequency
DLEVel	:Digital level
WTRace	:Word trace

[Function] Sets the measurement mode.

[Screen] Measure screen change window

[Example use] > :SENSe:MTYPe EALarm

#### :SENSe:MTYPe?

[Parameter] None

[Response] <mtype>=<CHARACTER RESPONSE DATA>

The same as :SENSe:MTYPe.

[Function] Queries the setting status of the measurement mode.

[Screen] Measure screen change window

[Example use] > :SENSe:MTYPe?  
< EAL

**:SENSe:TELeom:INTerface <interface>**

[Parameter]	<interface>=<CHARACTER PROGRAM DATA>
	V24 :V.24/V.28(RS-232C)
	V35 :V.35
	V36 :V.36
	RS449 :RS-449
	X20 :X.20(RS-423)
	X21 :X.21(RS-422)
	TCMos :TTL/CMOS
	K64 :G.703 64k
	K192 :I.430/I.430-a 192k
	M1_5 :G.704/I.431 1.544M
	M2 :G.704/I.431 2.048M
	CMIM2 :2M CMI
	M6 :G.704 6.312M
	SAME :Same
	SLOop :Self loop
[Function]	Sets type of the receive Interface.
[Screen]	Rx:Interface of Interface:Interface screen
[Restriction]	Exists the parameter depending on sort of the interface unit. MU643000A : All parameter are available. MU643000B/K : M2 are unavailable. MU643000C : M1_5, CMIM2 and M6 are unavailable.
[Example use]	> :SENSe:TELeom:INTerface V24

**:SENSe:TELeom:INTerface?**

[Parameter]	None
[Response]	<interface>=<CHARACTER RESPONSE DATA> The same as :SENSe:TELcom:INTerface.
[Function]	Queries the setting status of the type of the receive interface.
[Screen]	Rx:Interface of Interface:Interface screen
[Example use]	> :SENSe:TELeom:INTerface? < V24

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:TIMing <timing>

- [Parameter] <timing>=<STRING PROGRAM DATA>  
    "ASYNc" :Async  
    "ST" :ST  
    "S" :S  
    "S:INV" :S(INV)  
    "RT" :RT  
    "RT:INV" :RT(INV)
- [Function] Sets synchronization/asynchronization mode and timing clock.
- [Screen] Rx:Timing of Interface:Interface screen
- [Example use] > :SENSe:TELecom:TIMing "ASYNc"

### :SENSe:TELecom:TIMing?

- [Parameter] None
- [Response] <timing>=<STRING RESPONSE DATA>  
    The same as :SENSe:TELcom:TIMing.
- [Function] Queries the setting status of synchronization/asynchronization mode and timing clock.
- [Screen] Rx:Timing of Interface:Interface screen
- [Example use] > :SENSe:TELecom:TIMing?  
    < "ASYN"

### :SENSe:TELecom:SSBit <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
    OFF or 0 :Off  
    ON or 1 :On
- [Function] Sets the On/Off of the detection of start/stop bits.
- [Screen] Rx:Start/Stop bit of Interface:Interface screen.
- [Example use] > :SENSe:TELecom:SSBit 0

### :SENSe:TELecom:SSBit?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
    The same as :SENSe:TELcom:SSBit.
- [Function] Queries the On/Off setting status of the start/stop bit detection.
- [Screen] Rx:Start/Stop bit of Interface:Interface screen
- [Example use] > :SENSe:TELecom:SSBit?  
    < 0

**:SENSe:TELcom:BRATe <brate>**

[Parameter]      <brate>=<DECIMAL NUMERIC PROGRAM DATA>

50	:50 bit/s	3600	:3600 bit/s
75	:75 bit/s	4800	:4800 bit/s
100	:100 bit/s	7200	:7200 bit/s
110	:110 bit/s	8000	:8000 bit/s
150	:150 bit/s	9600	:9600 bit/s
200	:200 bit/s	12000	:12000 bit/s
255	:255 bit/s	12800	:12800 bit/s
300	:300 bit/s	14400	:14400 bit/s
400	:400 bit/s	16000	:16000 bit/s
500	:500 bit/s	16800	:16800 bit/s
510	:510 bit/s	19200	:19200 bit/s
600	:600 bit/s	28800	:28800 bit/s
770	:770 bit/s	32000	:32000 bit/s
800	:800 bit/s	38400	:38400 bit/s
1000	:1000 bit/s	46000	:46000 bit/s
1200	:1200 bit/s	48000	:48000 bit/s
1600	:1600 bit/s	50000	:50000 bit/s
1800	:1800 bit/s	56000	:56000 bit/s
2000	:2000 bit/s	56600	:56600 bit/s
2400	:2400 bit/s	64000	:64000 bit/s
2560	:2560 bit/s	72000	:72000 bit/s
3000	:3000 bit/s	76800	:76800 bit/s
3200	:3200 bit/s	115200	:115200 bit/s

[Function]      Sets internal clock frequency.

[Screen]      Rx:Bit rate of Interface:Interface screen

[Restriction]      When the setting value of <brate> is out of the range, the nearest valid value within the range is automatically set.

[Example use]      > :SENSe:TELcom:BRATe 50

**:SENSe:TELcom:BRATe?**

[Parameter]      None

[Response]      <brate>=<NR1 NUMERIC RESPONSE DATA>

                  The same as :SENSe:TELcom:BRATe.

[Function]      Queries the setting status of the internal clock frequency.

[Screen]      Rx:Bit rate of Interface:Interface screen

[Example use]      > :SENSe:TELcom:BRATe?

                  < 50

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:DLENgth <dlength>

[Parameter] <dlength>=<STRING PROGRAM DATA>  
"BIT5" :5bit  
"BIT6" :6bit  
"BIT7" :7bit  
"BIT8" :8bit

[Function] Sets data length.

[Screen] Rx:Data length of Interface:Interface screen

[Example use] > :SENSe:TELecom:DLENgth "BIT5"

### :SENSe:TELecom:DLENgth?

[Parameter] None

[Response] <dlength>=<STRING RESPONSE DATA>  
The same as :SENSe:TELcom:DLENgth

[Function] Queries the setting status of data length.

[Screen] Rx:Data length of Interface:Interface screen

[Example use] > :SENSe:TELecom:DLENgth?  
< "BIT5"

### :SENSe:TELecom:PARity <parity>

[Parameter] <parity>=<CHARACTER PROGRAM DATA>  
NONE :None  
ODD :Odd  
EVEN :Even

[Function] Sets parity.

[Screen] Rx:Parity of Interface:Interface screen

[Example use] > :SENSe:TELecom:PARity NONE

### :SENSe:TELecom:PARity?

[Parameter] None

[Response] <parity>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:TELcom:PARity.

[Function] Queries the setting status of parity.

[Screen] Rx:Parity of Interface:Interface screen

[Example use] > :SENSe:TELecom:PARity?  
< NONE

**:SENSe:TELcom:BSYNc <boolean>**

[Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0 :Off  
                   ON or 1 :On

[Function]     Sets the byte synchronization using B line.

[Screen]       Rx:Byte sync of Interface:Interface screen

[Example use]   > :SENSe:TELcom:BSYNc 0

**:SENSe:TELcom:BSYNc?**

[Parameter]     None

[Response]      <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :SENSe:TELcom:BSYNc.

[Function]     Queries the setting status of the byte synchronization using B line.

[Screen]       Rx:Byte sync of Interface:Interface screen

[Example use]   > :SENSe:TELcom:BSYNc?  
                   < 0

**:SENSe:TELcom:CODE <code>**

[Parameter]      <code>=<STRING PROGRAM DATA>  
                   "AMI"    :AMI  
                   "B8ZS"   :B8ZS  
                   "HDB3"   :HDB3

[Function]     Sets the transmission code.

[Screen]       Rx:Code of Interface:Interface screen

[Restriction]   Exists the parameter depending on sort of the interface unit.  
                   MU643000A    : All parameters are available.  
                   MU643000B/K   : "HDB3" is unavailable.  
                   MU643000C   : "B8ZS" is unavailable.

[Example use]   > :SENSe:TELcom:CODE "AMI"

**:SENSe:TELcom:CODE?**

[Parameter]     None

[Response]      <code>=<STRING RESPONSE DATA>  
                   The same as :SENSe:TELcom:CODE.

[Function]     Queries the setting status of transmission code.

[Screen]       Rx:Code of Interface:Interface screen

[Restriction]   None

[Example use]   > :SENSe:TELcom:CODE?  
                   < "AMI"

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:FRAMe <frame>

[Parameter]	<frame>=<STRING PROGRAM DATA>
	"MFP24:G704" :24MFP(G.704)
	"MFP24:NTT" :24MFP(NTT)
	"MFP16:B30+D" :16MFP(30B+D)
	"MFP16:B31" :16MFP(31B)
	"MFP12:G704" :12MFP(G.704)
	"MFP2:B30+D" :2MFP(30B+D)
	"MFP2:B31" :2MFP(31B)
	"PBX" :PBX
	"CRV" :CRV
	"MFP4:G704" :4MFP(G.704)
	"UNFRame" :Unframe
[Function]	Sets frame format.
[Screen]	Rx:Frame of Interface:Interface screen
[Restriction]	Exists the parameter depending on sort of the interface unit. MU643000A : All parameters are available. MU643000B : "MFP16:B30+D", "MFP16:B31", "MFP2:B30+D", "MFP2:B31" are unavailable. MU643000C : "MFP24:G704", "MFP24:NTT", "MFP12:G704", "PBX", "CRV" and "MFP4:G704" are unavailable. MU643000K : "MFP16:B30+D", "MFP16:B31", "MFP2:B30+D", and "MFP2:B31" are unavailable.
[Example use]	> :SENSe:TELecom:FRAMe "MFP24:G704"

### :SENSe:TELecom:FRAMe?

[Parameter]	None
[Response]	<frame>=<STRING RESPONSE DATA> The same as :SENSe:TELcom:FRAMe.
[Function]	Queries the setting status of the frame format.
[Screen]	Rx:Frame of Interface:Interface screen
[Example use]	> :SENSe:TELecom:FRAMe? < "MFP24:G704"

## 6.4 SENSe Sub-system

### :SENSe:TELcom:SKB8 <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the byte synchronization using the input signal of Ext (64k + 8k).  
[Screen] Rx:8k byte sync of Interface:Interface screen  
[Example use] > :SENSe:TELcom:SKB8 0

### :SENSe:TELcom:SKB8?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:SKB8.  
[Function] Queries the setting status of the byte synchronization using the input signal of Ext (64k + 8k).  
[Screen] Rx:8k byte sync of Interface:Interface screen  
[Example use] > :SENSe:TELcom:SKB8?  
< 0

### :SENSe:TELcom:TSLot[:TYPE] <tslot>

[Parameter] <tslot>=<CHARACTER PROGRAM DATA>  
TSN :TSn  
H0 :H0  
H11 :H11  
H12 :H12  
ANY :Any  
DLBit :DL bit  
DCH :Dch  
SABit :Sa bit  
SPBit :SP bit  
[Function] Sets time slot for test.  
[Screen] Rx:Time slot of Interface:Interface screen  
[Restriction] Exists the parameter depending on sort of the interface unit.  
MU643000A : All parameters are available.  
MU643000B/K : H12 and SABit are unavailable.  
MU643000C : DLBit and SPBit are unavailable.  
[Example use] > :SENSe:TELcom:TSLot TSN

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELEcom:TSLot[:TYPE]?

[Parameter] None  
[Response] <tslot>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:TELcom:TSLot[:TYPE].  
[Function] Queries the setting status of time slot for test.  
[Screen] Rx:Time slot of Interface:Interface screen  
[Example use] > :SENSe:TELEcom:TSLot?  
< TSN

### :SENSe:TELEcom:TSLot:TSN <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 98 (step 1) : MU643000A  
1 to 98 (step 1) : MU643000B/K  
1 to 31 (step 1) : MU643000C  
[Function] Sets time slot for test.  
[Screen] Rx:Time slot of Interface:Interface screen  
[Restriction] Value depends on the interface unit used.  
[Example use] > :SENSe:TELEcom:TSLot 1

### :SENSe:TELEcom:TSLot:TSN?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:TSLot[:TYPE].  
[Function] Queries the setting status of time slot for test.  
[Screen] Rx:Time slot of Interface:Interface screen  
[Example use] > :SENSe:TELEcom:TSLot?  
< 1

### :SENSe:TELEcom:TSLot:HGN <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 16 (step 1)  
[Function] Sets time slot for test.  
[Screen] Rx:Time slot of Interface:Interface screen  
[Restriction] The command may be unavailable depending on the interface unit to be used.  
MU643000A : Available  
MU643000B/K : Available  
MU643000C : Unavailable  
[Example use] > :SENSe:TELEcom:TSLot:HGN 1

**:SENSe:TELEcom:TSLot:HGN?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SENSe:TELEcom:TSLot:HGN.  
 [Function] Queries the setting status of the time slot for test.  
 [Screen] Rx:Time slot of Interface:Interface screen.  
 [Example use] > :SENSe:TELEcom:TSLot:HGN?  
     < 1

**:SENSe:TELEcom:TSLot:DCHannel <dchannel>**

[Parameter] <dchannel>=<CHARACTER PROGRAM DATA>  
     B1       :B1  
     B2       :B2  
     B12      :B1+B2  
     D       :D  
 [Function] Sets channel for the I.430/I.430-a 192k test.  
 [Screen] Rx:Data channel of Interface:Interface screen  
 [Example use] > :SENSe:TELEcom:TSLot:DCHannel B1

**:SENSe:TELEcom:TSLot:DCHannel?**

[Parameter] None  
 [Response] <dchannel>=<CHARACTER RESPONSE DATA>  
     The same as :SENSe:TELEcom:TSLot:DCHannel.  
 [Function] Queries the setting status of the channel for the I.430/I.430-a 192k test.  
 [Screen] Rx:Data channel of Interface:Interface screen  
 [Example use] > :SENSe:TELEcom:TSLot:DCHannel?  
     < B1

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:CHANnel <channel>

- [Parameter] <channel>=<CHARACTER PROGRAM DATA>
- |       |         |
|-------|---------|
| SBIT  | :ST bit |
| CH1   | :CH1    |
| CH2   | :CH2    |
| CH3   | :CH3    |
| CH4   | :CH4    |
| CH5   | :CH5    |
| CH6   | :CH6    |
| ALLCh | :All CH |
| INFO  | :Info   |
- [Function] Sets the channel for test.
- [Screen] Rx:Channel of Interface:Interface screen
- [Restriction] The command may be unavailable depending on the interface unit to be used.
- |             |               |
|-------------|---------------|
| MU643000A   | : Available   |
| MU643000B/K | : Available   |
| MU643000C   | : Unavailable |
- [Example use] > :SENSe:TELecom:CHANnel SBIT

### :SENSe:TELecom:CHANnel?

- [Parameter] None
- [Response] <channel>=<CHARACTER PROGRAM DATA>
- The same as :SENSe:TELecom:CHANnel.
- [Function] Queries the setting status of the channel for test.
- [Screen] Rx:Channel of Interface:Interface screen.
- [Restriction] :The same as :SOURce:TELecom:CHANnel.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] > :SENSe:TELecom:CHANnel?  
< SBIT

## 6.4 SENSe Sub-system

### :SENSe:TELecom:TSLot:DBRate <dbrate>

[Parameter] <dbrate>=<STRING PROGRAM DATA>

"K64"	:64k×n
"K56_17"	:56k(1-7)×n
"K56_28"	:56k(2-8)×n
"K32"	:32kbit/s
"K16"	:16kbit/s
"K8"	:8kbit/s
"K48"	:48kbit/s
"K9_6"	:9.6kbit/s
"K4_8"	:4.8kbit/s
"K2_4"	:2.4kbit/s
"K0_6"	:600bit/s
"DSIGnaling"	:Signaling
"M1_544"	:1.544Mbit/s
"X50:ANY"	:X.50 Any

[Function] Sets the data bit rate for test.

[Screen] Rx:Data bit rate of Interface:Interface screen

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A	: All parameters are available.
MU643000B/K	: "M1_544" are unavailable.
MU643000C	: All parameters are available.

[Example use] > :SENSe:TELecom:TSLot:DBRate "K64"

### :SENSe:TELecom:TSLot:DBRate?

[Parameter] None

[Response] <dbrate>=<STRING RESPONSE DATA>

The same as :SENSe:TELcom:TSLot:DBRate.

[Function] Queries the setting status of the data bit rate for test.

[Screen] Rx:Data bit rate of Interface:Interface screen

[Example use] > :SENSe:TELecom:TSLot:DBRate?

< "K64"

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:TSLot:DBRN <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 98 (step 1) :MU643000A  
1 to 98 (step 1) :MU643000B/K  
1 to 31 (step 1) :MU643000C

[Function] Sets the data bit rate for test.

[Screen] Rx:Data bit rate of Interface:Interface screen

[Restriction] Value depends on the interface unit.

[Example use] > :SENSe:TELecom:TSLot:DBRN 1

### :SENSe:TELecom:TSLot:DBRN?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:TSLot:DBRate.  
[Function] Queries the setting status of the data bit rate for test.  
[Screen] Rx:Data bit rate of Interface:Interface screen  
[Example use] > :SENSe:TELecom:TSLot:DBRN?  
< 1

### :SENSe:TELecom:TSLot:HChannel0 <hchannel0>

[Parameter] <hchannel0>=<STRING PROGRAM DATA>  
"010203040506" :01-02-03-04-05-06  
"070809101112" :07-08-09-10-11-12  
"131415161718" :13-14-15-16-17-18  
"192021222324" :19-20-21-22-23-24  
"010203171819" :01-02-03 17-18-19  
"040506202122" :04-05-06 20-21-22  
"070809232425" :07-08-09 23-24-25  
"101112262728" :10-11-12 26-27-28  
"131415293031" :13-14-15 29-30-31  
"010711172327" :01-07-11 17-23-27  
"030915192531" :03-09-15 19-25-31  
"040812202428" :04-08-12 20-24-28  
"051013212629" :05-10-13 21-26-29  
"020614182230" :02-06-14 18-22-30

When MU643000A or MU643000B is selected, these parameters are available.

When MU643000A or MU643000C is selected, these parameters are available.

[Function] Sets the H0 channel.

[Screen] Rx:H0 Channel of Interface:Interface screen

[Restriction] Exists the parameter depending on sort of the interface unit.

[Example use] > :SENSe:TELecom:TSLot:HChannel0 "010203040506"

**:SENSe:TELecom:TSLot:HChannel0?**

[Parameter] None  
 [Response] <hchannel0>=<STRING RESPONSE DATA>  
     The same as :SENSe:TELcom:TSLot:HChannel0.  
 [Function] Queries the setting status of the H0 channel.  
 [Screen] Rx:H0 Channel of Interface:Interface screen  
 [Restriction] None  
 [Example use] > :SENSe:TELecom:TSLot:HChannel0?  
     <"010203040506"

**:SENSe:TELecom:TSLot:TSASsign <numeric1>[,<numeric2>]...[,<numericN>]**

[Parameter] <numeric1 to N>=<DECIMAL NUMERIC PROGRAM DATA>  
     N = 1 to 98 (step 1) : MU643000A  
     N = 1 to 98 (step 1) : MU643000B/K  
     N = 1 to 31 (step 1) : MU643000C  
 [Function] Sets the time-assigned slot.  
 [Screen] Rx:Time slot assign of Interface:Interface screen  
 [Restriction] Every interface unit, the number of available parameter is different.  
 [Example use] > :SENSe:TELecom:TSLot:TSASsign 1,2,3,4

**:SENSe:TELecom:TSLot:TSASsign?**

[Parameter] None  
 [Response] <numeric1 to 98>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SENSe:TELcom:TSLot:TSASsign.  
 [Function] Queries the setting status of the time-assigned slot.  
 [Screen] Rx:Time slot assign of Interface:Interface screen  
 [Restriction] The same as :SENSe:TELcom:TSLot:TSASsign.  
 [Example use] > :SENSe:TELecom:TSLot:TSASsign?  
     <1,2,3,4

**:SENSe:TELecom:TSLot:ATSassign**

[Parameter] None  
 [Function] Sets "select all" of the time-assigned slots.  
 [Screen] Rx:Time slot assign of Interface:Interface screen  
 [Example use] > :SENSe:TELecom:TSLot:ATSassign

**:SENSe:TELecom:TSLot:CTSassign**

[Parameter] None  
 [Function] Sets the canceling "select all" of the time-assigned slots.  
 [Screen] Rx:Time slot assign of Interface:Interface screen  
 [Example use] > :SENSe:TELecom:TSLot:CTSassign

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELcom:DFRame[:TYPE] <dframe>

[Parameter] <dframe>=<STRING PROGRAM DATA>  
"X50:MFP20" :X.50-20MFP  
"X50:MFP80" :X.50-80MFP  
"UNIVersal" :Universal

[Function] Sets data frame.

[Screen] Rx:Data frame of Interface:Interface screen

[Example use] > :SENSe:TELcom:DFRame "X50:MFP20"

### :SENSe:TELcom:DFRame[:TYPE]?

[Parameter] None  
[Response] <dframe>=<STRING RESPONSE DATA>  
The same as :SENSe:TELcom:DFRame[:TYPE].  
[Function] Queries the setting status of data frame.  
[Screen] Rx:Data frame of Interface:Interface screen  
[Example use] > :SENSe:TELcom:DFRame?  
< "X50:MFP20"

### :SENSe:TELcom:DFRame:XChannel50 <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 80 (step 1)  
[Function] Sets data channel for X.50 frame test.  
[Screen] Rx:X.50 Data channel of Interface:Interface screen  
[Restriction] Value depends on the interface unit used.  
[Example use] > :SENSe:TELcom:DFRame:XChannel50 1

### :SENSe:TELcom:DFRame:XChannel50?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:DFRame:XChannel50.  
[Function] Queries the setting status of data channel for X.50 frame test.  
[Screen] Rx:X.50 Data channel of Interface:Interface screen  
[Restriction] None  
[Example use] > :SENSe:TELcom:DFRame:XChannel50?  
< 1

**:SENSe:TELEcom:DFRame:XASSign50 <numeric1>[,<numeric2>]...[,<numeric80>]**

[Parameter] <numeric1 to 80>=<DECIMAL NUMERIC PROGRAM DATA>  
                  1 to 80 (step 1)

[Function] Sets the X.50 time-assigned channel.

[Screen] IRx:X.50 Assign of Interface:Interface screen

[Restriction] Value depends on the interface unit used.

[Example use] > :SENSe:TELEcom:DFRame:XASSign50 1,2,3,4

**:SENSe:TELEcom:DFRame:XASSign50?**

[Parameter] None

[Response] <numeric1 to N>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :SENSe:TELcom:DFRame:XASSign50.

[Function] Queries the setting status of X.50 time-assigned channel.

[Screen] Rx:X.50 Assign of Interface:Interface screen

[Restriction] The same as :SENSe:TELcom:DFRame:XASSign50.

[Example use] > :SENSe:TELEcom:DFRame:XASSign50?  
                  < 1,2,3,4

**:SENSe:TELEcom:DFRame:AXASsign50**

[Parameter] None

[Function] Sets "select all" of the X.50 time-assigned channels.

[Screen] Rx:X.50 Assign of Interface:Interface screen

[Example use] > :SENSe:TELEcom:DFRame:AXASsign50

**:SENSe:TELEcom:DFRame:CXASsign50**

[Parameter] None

[Function] Sets the canceling "select all" of the X.50 time-assigned channels.

[Screen] Rx:X.50 Assign of Interface:Interface screen

[Example use] > :SENSe:TELEcom:DFRame:CXASsign50

**:SENSe:TELEcom:DEMux <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
                  OFF or 0 :Off  
                  ON or 1 :On

[Function] Sets the On/Off of the DEMUX function.

[Screen] Rx:DEMUX of Interface:Interface screen

[Example use] > :SENSe:TELEcom:DEMux 0

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELcom:DEMux?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:DEMux.  
[Function] Queries the On/Off setting status of the DEMUX function.  
[Screen] Rx:DEMUX of Interface:Interface screen  
[Example use] > :SENSe:TELcom:DEMux?  
< 0

### :SENSe:TELcom:BASSign <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 8 (step 1)  
[Function] Sets data channel for test.  
[Screen] Rx:Bit assign of Interface:Interface screen  
[Example use] > :SENSe:TELcom:BASSign 1

### :SENSe:TELcom:BASSign?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:BASSign.  
[Function] Queries the setting status of data channel for test.  
[Screen] Rx:Bit assign of Interface:Interface screen  
[Example use] > :SENSe:TELcom:BASSign?  
< 1

### :SENSe:TELcom:BIT1 <bit>

[Parameter] <bit>=<STRING PROGRAM DATA>  
"0" :0  
"1" :1  
"01" :0/1(Alt)  
[Function] Sets the time-slot bit 1.  
[Screen] Rx:1st bit of Interface:Interface screen  
[Example use] > :SENSe:TELcom:BIT1 "0"

**:SENSe:TELcom:BIT1?**

[Parameter] None  
 [Response] <bit>=<STRING RESPONSE DATA>  
     The same as :SENSe:TELcom:BIT1.  
 [Function] Queries the setting status of the time-slot bit 1.  
 [Screen] Rx:1st bit of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:BIT1?  
     <"0"

**:SENSe:TELcom:BIT8 <bit>**

[Parameter] <bit>=<STRING PROGRAM DATA>  
     "0"       :0  
     "1"       :1  
     "01"      :0/1(Alt)  
 [Function] Sets the time-slot bit 8.  
 [Screen] Rx:8th bit of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:BIT8 "0"

**:SENSe:TELcom:BIT8?**

[Parameter] None  
 [Response] <bit>=<STRING RESPONSE DATA>  
     The same as :SENSe:TELcom:BIT8.  
 [Function] Queries the setting status of time-slot bit 8.  
 [Screen] Rx:8th bit of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:BIT8?  
     <"0"

**:SENSe:TELcom:BSTeal <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the signalling bit.  
 [Screen] Rx:Bit steal of Interface:Interface screen  
 [Restriction] Exists some interface unit which can not perform this command.  
     MU643000A   : Can perform this command.  
     MU643000B/K   : Can perform this command.  
     MU643000C   : Can not perform this command.  
 [Example use] > :SENSe:TELcom:BSTeal 0

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:BSTeal?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:BSTeal.  
[Function] Queries the setting status of the signalling bit.  
[Screen] Rx:Bit steal of Interface:Interface screen  
[Restriction] The same as :SENSe:TELcom:BSTeal.  
[Example use] > :SENSe:TELecom:BSTeal?  
< 0

### :SENSe:TELecom:VCHannel1 <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of the voice channel.  
[Screen] Rx:Voice channel of Interface:Interface screen  
[Example use] > :SENSe:TELecom:VCHannel1 1

### :SENSe:TELecom:VCHannel1?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:TELcom:VCHannel1.  
[Function] Queries the On/Off setting status of the voice channel.  
[Screen] Rx:Voice channel of Interface:Interface screen  
[Example use] > :SENSe:TELecom:VCHannel1?  
< 1

### :SENSe:TELecom:TSN <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
1 to 98 (step 1) :MU643000A  
1 to 98 (step 1) :MU643000B/K  
1 to 31 (step 1) :MU643000C  
[Function] Sets voice channel.  
[Screen] Rx:TSn of Interface:Interface screen  
[Restriction] Value depends on the interface unit used.  
[Example use] > :SENSe:TELecom:VCHannel 1

**:SENSe:TELcom:TSN?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :SENSe:TELcom:TSN.  
 [Function] Queries the setting status of the voice channel.  
 [Screen] Rx:TSn of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:TSN?  
     < 1

**:SENSe:TELcom:VCHannel2 <vchannel2>**

[Parameter] <vchannel2>=<CHARACTER PROGRAM DATA>  
     B1       :B1  
     B2       :B2  
     NONE     :None  
 [Function] Sets the I.430/I.430-a 192k voice channel.  
 [Screen] Rx:Voice channel of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:VCHannel2 B1

**:SENSe:TELcom:VCHannel2?**

[Parameter] None  
 [Response] <vchannel2>=<CHARACTER RESPONSE DATA>  
     The same as :SENSe:TELcom:VCHannel2.  
 [Function] Queries the setting status of the I.430/I.430-a 192k voice channel.  
 [Screen] Rx:Voice channel of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:VCHannel2?  
     < B1

**:SENSe:TELcom:ILEVel <iLevel>**

[Parameter] <iLevel>=<CHARACTER PROGRAM DATA>  
     MAIN     :Main  
     MONitor :Monitor  
     BRIDge  :Bridge  
 [Function] Sets the input level.  
 [Screen] Rx:Input level of Interface:Interface screen  
 [Example use] > :SENSe:TELcom:ILEVel MAIN

## SECTION 6 REMOTE COMMANDS

### :SENSe:TELecom:ILEVel?

[Parameter] None  
[Response] <level>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:TELcom:ILEVel.  
[Function] Queries the setting status of the input level.  
[Screen] Rx:Input level of Interface:Interface screen  
[Example use] > :SENSe:TELecom:ILEVel?  
< MAIN

### :SENSe:MEASure:RESet

[Parameter] None  
[Function] Sets the history reset of signal-line/alarm monitor.  
[Screen] Signal-line/alarm monitor display area.  
[Example use] > :SENSe:MEASure:RESet

### :SENSe:MEASure:STIMe?

[Parameter] None  
[Response] <year>,<month>,<day>,<hour>,<minute>,<second>=<NR1 NUMERIC RESPONSE DATA>  
1997 to 2096 (step 1) :<year>  
1 to 12 (step 1) :<month>  
1 to 31 (step 1) :<day>  
0 to 23 (step 1) :<hour>  
0 to 59 (step 1) :<minute>  
0 to 59 (step 1) :<second>  
[Function] Queries the measurement start time.  
[Screen] None  
[Restriction] When measurement is not started yet;  
9999, 99, 99, 99, 99, 99 becomes the response.  
[Example use] When the measurement start time is the year 1999, September 23rd 8 hours  
49 minutes 11 second:  
> :SENSe:MEASure:STIMe?  
< 1999,9,23,8,49,11

**:SENSe:MEASure:ELAPsed?**

[Parameter]	None
[Response]	<day>,<hour>,<minute>,<second>=<NR1 NUMERIC RESPONSE DATA> 0 to 99 (step 1) :<day> 0 to 23 (step 1) :<hour> 0 to 59 (step 1) :<minute> 0 to 59 (step 1) :<second>
[Function]	Queries the elapsed time of measurement.
[Screen]	None
[Restriction]	When measurement is not started yet; 99, 99, 99, 99 becomes the response.
[Example use]	When the measurement elapsed time is 23 days 8 hours 49 minutes 11 seconds: > :SENSe:MEASure:ELAPsed? < 23,8,49,11

**:SENSe:MEASure:FRESet**

[Parameter]	None
[Function]	Sets the reset of the FECN alarm display.
[Screen]	FECN Reset of Measure:Error/Alarm screen and Measure:Frame relay screen
[Example use]	> :SENSe:MEASure:FRESet

**:SENSe:MEASure:BRESet**

[Parameter]	None
[Function]	Sets the reset of the BECN alarm display.
[Screen]	BECN Reset of Measure:Error/Alarm screen and Measure:Frame relay screen
[Example use]	> :SENSe:MEASure:BRESet

**:SENSe:MEASure:EALarm:STARt**

[Parameter]	None
[Function]	Sets start of the Error/Alarm measurement.
[Screen]	Area for operating instruction button
[Restriction]	The execution error occurs and this function is ignored when measurement is in progress.
[Example use]	> :SENSe:MEASure:EALarm:STARt

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:STOP

[Parameter] None  
[Function] Sets stop of the Error/Alarm measurement.  
[Screen] Area for operating instruction button  
[Example use] > :SENSe:MEASure:EALarm:STOP

### :SENSe:MEASure:EALarm:STATE?

[Parameter] None  
[Response] <state>=<CHARACTER RESPONSE DATA>  
              STOP     : Measurement has ended or is not performed in the cases  
                          other than the waiting for establishment of the PSL  
                          synchronization and waiting for program start.  
              PRGWait : Waiting for program start.  
              PSLWait : Waiting for establishment of the PSL synchronization  
              STARt    : Measurement is in progress  
[Function] Queries measurement status of Error/Alarm.  
[Screen] None  
[Example use] > :SENSe:MEASure:EALarm:STATE?  
              < STOP

### :SENSe:MEASure:EALarm:TPATtern <tpattern>

[Parameter] <tpattern>=<STRING PROGRAM DATA>  
              "PRBS6"       :PRBS6  
              "PRBS7"       :PRBS7  
              "PRBS9"       :PRBS9  
              "PRBS11"      :PRBS11  
              "PRBS15"      :PRBS15  
              "PRBS19"      :PRBS19  
              "PRBS20"      :PRBS20  
              "RPRBS20"     :RPRBS20  
              "PRBS23"      :PRBS23  
              "QRSS"        :QRSS  
              "WORD8"       :Word8  
              "1\_1"          :1:1  
              "ALL1"        :All-1  
              "ALL0"        :All-0  
              "CHARacter"   :Character  
[Function] Sets the pattern of measurement.  
[Screen] Cond. 1:Test pattern of Measure>Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:TPATtern "PRBS6"

**:SENSe:MEASure:EALarm:TPATtern?**

[Parameter] None  
 [Response] <tpattern>=<STRING RESPONSE DATA>  
     The same as :SENSe:MEASure:EALarm:TPATtern  
 [Function] Queries the setting status of the test pattern.  
 [Screen] Cond. 1:Test pattern of Measure:Error/Alarm screen.  
 [Restriction] None  
 [Example use] > :SENSe:MEASure:EALarm:TPATtern?  
     < "PRBS6"

**:SENSe:MEASure:EALarm:WORD8 <word8>**

[Parameter] <word8>=<STRING PROGRAM DATA>  
     "00000000" to "11111111"  
     "00000000" to "1111111"  
     "000000" to "111111"  
     "00000" to "11111"  
 [Function] Sets the test pattern.  
 [Screen] Cond. 1:Test pattern of Measure:Error/Alarm screen  
 [Restriction] When a value of four digits ("NOPQ") is input while <word8> is waiting for input of the eight digit value, "\*\*\*\*\*NOPQ" is set. Here, the "\*\*\*\*\*" is the previous set value. When a value of eight digit value ("NOPQRSTU") is input while <word8> is waiting for input of four digit value, "RSTU" is set.  
 [Example use] > :SENSe:MEASure:EALarm:WORD8 "00000000"

**:SENSe:MEASure:EALarm:WORD8?**

[Parameter] None  
 [Response] <word8>=<STRING RESPONSE DATA>  
     The same as :SENSe:MEASure:EALarm:WORD8.  
 [Function] Queries the setting status of the test pattern.  
 [Screen] Cond. 1:Test pattern of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:WORD8?  
     < "00000000"

**:SENSe:MEASure:EALarm:PINVert <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the bit inversion of the PRBS pattern.  
 [Screen] Cond. 1:PRBS Invert of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:PINVert 0

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:PINVert?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:PINVert.  
[Function] Queries the setting status of bit inversion of the PRBS pattern.  
[Screen] Cond. 1:PRBS Invert of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:PINVert?  
< 0

### :SENSe:MEASure:EALarm:PTHreshold <pthreshold>

[Parameter] <pthreshold>=<STRING PROGRAM DATA>  
"AUTO" :Auto "1\_0E03:1\_0E04" :1.0E03/1.0E04  
"10:100" :10/100 "2\_0E03:1\_0E04" :2.0E03/1.0E04  
"20:100" :20/100 "2\_5E03:1\_0E04" :2.5E03/1.0E04  
"25:100" :25/100 "1\_0E04:3\_0E04" :1.0E04/3.0E04  
"100:300" :100/300 "1\_0E04:1\_0E05" :1.0E04/1.0E05  
"100:1\_0E03" :100/1.0E03 "2\_0E04:1\_0E05" :2.0E04/1.0E05  
"200:1\_0E03" :200/1.0E03 "2\_5E04:1\_0E05" :2.5E04/1.0E05  
"250:1\_0E03" :250/1.0E03 "1\_0E05:3\_0E05" :1.0E05/3.0E05  
"1\_0E03:3\_0E03" :1.0E03/3.0E03  
[Function] Sets the detection threshold value of pattern synchronization loss.  
[Screen] Cond. 1:PSL Threshold of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:PTHreshold "AUTO"

### :SENSe:MEASure:EALarm:PTHreshold?

[Parameter] None  
[Response] <pthreshold>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:PTHreshold.  
[Function] Queries the setting status of the threshold value to detect the pattern synchronization loss.  
[Screen] Cond. 1:PSL Threshold of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:PTHreshold?  
< "AUTO"

**:SENSe:MEASure:EALarm:EDETect <edetect>**

[Parameter]	<edetect>=<STRING PROGRAM DATA>
	"BIT" :Bit
	"CRC" :CRC
	"FRAMe" :Frame
	"X50:FRAMe" :X.50 Frame
	"PARity" :Parity
	"CODE" :Code
	"EBIT" :E bit
	"1_8" :1/8
[Function]	Sets type of the detection error.
[Screen]	Cond. 1:Error detect of Measure:Error/Alarm screen
[Restriction]	Exists the parameter depending on the sort of the interface unit. MU643000A : All parameters are available. MU643000B/K : "EBIT" is unavailable. MU643000C : All parameters are available.
[Example use]	> :SENSe:MEASure:EALarm:EDETect "BIT"

**:SENSe:MEASure:EALarm:EDETect?**

[Parameter]	None
[Response]	<edetect>=<STRING RESPONSE DATA> The same as :SENSe:MEASure:EALarm:EDETect.
[Function]	Queries the setting status of type of error detection.
[Screen]	Cond. 1:Error detect of Measure:Error/Alarm screen
[Example use]	> :SENSe:MEASure:EALarm:EDETect? < "BIT"

**:SENSe:MEASure:EALarm:BLENgth <blength>**

[Parameter]	<blength>=<STRING PROGRAM DATA>
	"1_0E01" :1.0E01 "256" :256
	"1_0E02" :1.0E02 "512" :512
	"1_0E03" :1.0E03 "1024" :1024
	"1_0E04" :1.0E04 "2048" :2048
	"1_0E05" :1.0E05 "4096" :4096
	"1_0E06" :1.0E06 "8192" :8192
	"32" :32 "16384" :16384
	"64" :64 "32768" :32768
	"128" :128 "65536" :65536
[Function]	Sets length of measurement block.
[Screen]	Cond. 1:Block length of Measure:Error/Alarm screen.
[Example use]	> :SENSe:MEASure:EALarm:BLENgth "1_0E01"

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:BLENgth?

[Parameter] None  
[Response] <blength>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:BLENgth.  
[Function] Queries the setting status of the measurement block length.  
[Screen] Cond. 1:Block length of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:BLENgth?  
<"1\_0E01"

### :SENSe:MEASure:EALarm:TYPE <mmode>

[Parameter] <mmode>=<CHARACTER PROGRAM DATA>  
SINGle :Single  
REPeat :Repeat  
MANual :Manual  
[Function] Sets the measurement mode.  
[Screen] Cond. 1:Mode of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:TYPE SINGLE

### :SENSe:MEASure:EALarm:TYPE?

[Parameter] None  
[Response] <mmode>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:TYPE.  
[Function] Queries the setting status of measurement mode.  
[Screen] Cond. 1:Mode of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:TYPE?  
< SING

### :SENSe:MEASure:EALarm:PERiod <day>,<hour>,<minute>,<second>

[Parameter] <day>,<hour>,<minute>,<second>=  
<DECIMAL NUMERIC PROGRAM DATA>  
0 to 31 (step 1) :<day>  
0 to 23 (step 1) :<hour>  
0 to 59 (step 1) :<minute>  
0 to 59 (step 1) :<second>  
[Function] Sets the time of the measurement gating period.  
[Screen] Cond. 1:Mode of Measure:Error/Alarm screen  
[Example use] When the time of measurement gating period is 3 days 12 hours 30 minutes  
00 seconds.  
> :SENSe:MEASure:EALarm:PERiod 3,12,30,0

## 6.4 SENSe Sub-system

### **:SENSe:MEASure:EALarm:PERiod?**

[Parameter] None  
[Response] <day>,<hour>,<minute>,<second>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALARM:PERiod.  
[Function] Queries the setting status of the time of measurement gating period.  
[Screen] Cond. 1:Mode of Measure:Error/Alarm screen  
[Example use] When the time of measurement gating period is 3 days 12 hours 30 minutes 00 seconds:  
> :SENSe:MEASure:EALarm:PERiod?  
< 3,12,30,0

### **:SENSe:MEASure:EALarm:BTIMe:SET <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of the program start.  
[Screen] Cond. 1:Program start of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:BTIMe:SET 0

### **:SENSe:MEASure:EALarm:BTIMe:SET?**

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:BTIMe:SET.  
[Function] Queries the On/Off setting status of program start.  
[Screen] Cond. 1:Program start of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:BTIMe:SET?  
< 0

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:BTIMe:STARt

<year>,<month>,<day>,<hour>,<minute>,<second>

[Parameter] <year>,<month>,<day>,<hour>,<minute>,<second>=  
<DECIMAL NUMERIC PROGRAM DATA>  
1997 to 2096 (step 1) :<year>  
1 to 12 (step 1) :<month>  
1 to 31 (step 1) :<day>  
0 to 23 (step 1) :<hour>  
0 to 59 (step 1) :<minute>  
0 to 59 (step 1) :<second>

[Function] Sets the time to start the automatic measurement.

[Screen] Cond. 1:Program start of Measure:Error/Alarm screen

[Example use] When the time to start the automatic measurement is the year 1998, October

3rd 12 hours 30 minutes 00 seconds:

> :SENSe:MEASure:EALarm:BTIMe:STARt 1998,10,3,12,30,0

### :SENSe:MEASure:EALarm:BTIMe:STARt?

[Parameter] None

[Response] <year>,<month>,<day>,<hour>,<minute>,<second>=  
<NR1 NUMERIC RESPONSE DATA>

The same as :SENSe:MEASure:EALarm:BTIMe:STARt.

[Function] Queries the setting status of the time to start the automatic measurement.

[Screen] Cond. 1:Program start of Measure:Error/Alarm screen.

[Example use] When the time to start the automatic measurement is the year 1998,  
October 3rd 12 hours 30 minutes 00 seconds.

> :SENSe:MEASure:EALarm:BTIMe:STARt?

< 1998,10,3,12,30,0

### :SENSe:MEASure:EALarm:BTIMe:MSLave <mslave>

[Parameter] <mslave>=<CHARACTER PROGRAM DATA>

MASTER :Master  
SLAVE :Slave

[Function] Sets the calling-party/called-party of the program start.

[Screen] Cond. 1:Master/Slave of Measure:Error/Alarm screen

[Example use] > :SENSe:MEASure:EALarm:BTIMe:MSLave MASTer

## 6.4 SENSe Sub-system

### :SENSe:MEASure:EALarm:BTIMe:MSLave?

[Parameter] None  
[Response] <mslave>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:BTIMe:MSLave.  
[Function] Queries the setting status of the calling-party/called-party of the program start.  
[Screen] Cond. 1:Master/Slave of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:BTIMe:MSLave?  
< MASTer

### :SENSe:MEASure:EALarm:OPATtern <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 : Off  
ON or 1 : On  
[Function] Sets the On/Off for detecting the coincidence of the octet pattern.  
[Screen] Cond. 1:Octet pattern of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:OPATtern 0

### :SENSe:MEASure:EALarm:OPATtern?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:OPATtern.  
[Function] Queries the On/Off setting status for detecting the coincidence of the octet pattern.  
[Screen] Cond. 1:Octet pattern of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:OPATtern?  
< 0

### :SENSe:MEASure:EALarm:OPATtern PATTern <opattern>

[Parameter] <opattern>=<STRING PROGRAM DATA>  
"00000000" to "11111111"  
"0000000" to "1111111"  
"000000" to "111111"  
"00000" to "1111"  
[Function] Sets the pattern for detecting the coincidence of the octet pattern.  
[Screen] Cond. 1:Octet pattern of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:OPATtern:PATTern "00000000"

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:OPATtern: PATTern ?

[Parameter] None  
[Response] <opattern>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:OPATtern.  
[Function] Queries the setting status of the pattern for detecting the coincidence of the octet pattern.  
[Screen] Cond. 1:Octet pattern of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:OPATtern:PATTern?  
< "00000000"

### :SENSe:MEASure:EALarm:LLINe <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of creating the log data.  
[Screen] Cond. 1:Logging Line of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:LLINe 0

### :SENSe:MEASure:EALarm:LLINe?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:LLINe.  
[Function] Queries the On/Off setting status of creating the log data.  
[Screen] Cond. 1:Logging Line of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:LLINe?  
< 0

### :SENSe:MEASure:EALarm:HLINe <hline>

[Parameter] <hline>=<CHARACTER PROGRAM DATA>  
OFF :Off  
TX :Tx  
RX :Rx  
[Function] Sets the On/Off and object line of creating the graph data.  
[Screen] Cond. 1:Histogram Line of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:HLINe OFF

**:SENSe:MEASure:EALarm:HLINe?**

[Parameter] None  
 [Response] <hline>=<CHARACTER RESPONSE DATA>  
     The same as :SENSe:MEASure:EALarm:HLINe.  
 [Function] Queries the setting status of graph data creation On/Off and the object line.  
 [Screen] MCond. 1:Histogram Line of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:HLINe?  
     < OFF

**:SENSe:MEASure:EALarm:HRESolution <gres>**

[Parameter] <gres>=<CHARACTER PROGRAM DATA>  
     SEC1   :1s  
     MIN1   :1min  
     MIN15   :15min  
     MIN60   :60min  
 [Function] Sets the time axis resolution when creating the graph data.  
 [Screen] Cond. 1:Histogram resolution of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:HRESolution SEC1

**:SENSe:MEASure:EALarm:HRESolution?**

[Parameter] None  
 [Response] <gres>=<CHARACTER RESPONSE DATA>  
     The same as :SENSe:MEASure:EALarm:HRESolution.  
 [Function] Queries the setting status of the time axis resolution when creating graph data.  
 [Screen] Cond. 1:Histogram resolution of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:HRESolution?  
     < SEC1

**:SENSe:MEASure:EALarm:HFDetect <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the On/Off of detecting the HDLC frame.  
 [Screen] Cond. 1:HDLC Frame detect of Measure:Error/Alarm screen  
 [Example use] > :SENSe:MEASure:EALarm:HFDetect 0

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:EALarm:HFDetect?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:HFDetect.  
[Function] Queries the On/Off setting status of detecting the HDLC frame.  
[Screen] Cond. 1:HDLC Frame detect of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:HFDetect?  
< 0

### :SENSe:MEASure:EALarm:FRDetect <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets the On/Off of detecting the Frame relay frame.  
[Screen] Cond. 1:Frame relay detect of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:FRDetect 0

### :SENSe:MEASure:EALarm:FRDetect?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:EALarm:FRDetect.  
[Function] Queries the On/Off setting status of detecting the Frame relay frame.  
[Screen] Cond. 1:Frame relay detect of Measure:Error/Alarm screen  
[Example use] > :SENSe:MEASure:EALarm:FRDetect?  
< 0

### :SENSe:MEASure:FRElAy:STARt

[Parameter] None  
[Function] Sets start of the Frame relay measurement.  
[Screen] Area for operating instruction button.  
[Restriction] The execution error occurs and this function is ignored when measurement is in progress.  
[Example use] > :SENSe:MEASure:FRElAy:STARt

### :SENSe:MEASure:FRElAy:STOP

[Parameter] None  
[Function] Sets the stop of the Frame relay measurement.  
[Screen] Area for operating instruction button.  
[Example use] > :SENSe:MEASure:FRElAy:STOP

**:SENSe:MEASure:FRELay:STATE?**

[Parameter] None  
 [Response] <state>=<CHARACTER RESPONSE DATA>  
     STOP       : Measurement is completed except for the case of waiting  
                 for link, or measurement is not performed yet.  
     LNKWait     : Waiting for link.  
     STARt       : Measurement is in progress.  
 [Function] Queries the measurement status of the Frame relay.  
 [Screen] None  
 [Example use] > :SENSe:MEASure:FRELay:STATE?  
                  < STOP

**:SENSe:MEASure:DELay:STARt**

[Parameter] None  
 [Function] Sets the start of the delay measurement.  
 [Screen] Area for operating instruction button.  
 [Restriction] The execution error occurs and this function is ignored when measurement  
                 is in progress.  
 [Example use] > :SENSe:MEASure:DELay:STARt

**:SENSe:MEASure:DELay:STOP**

[Parameter] None  
 [Function] Sets the stop of the delay measurement.  
 [Screen] Area for operating instruction button  
 [Example use] > :SENSe:MEASure:DELay:STOP

**:SENSe:MEASure:DELay:STATE?**

[Parameter] None  
 [Response] <state>=<CHARACTER RESPONSE DATA>  
     STOP       : Measurement is completed or measurement is not  
                 performed yet.  
     PSLWait     : Waiting for establishment of the PSL synchronization.  
     STARt       : Measurement is in progress  
 [Function] Queries the measurement status of Delay.  
 [Screen] None  
 [Example use] > :SENSe:MEASure:DELay:STATE?  
                  < STOP

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:DELay:TYPE <type>

- [Parameter] <type>=<CHARACTER PROGRAM DATA>  
LDElay :Line interval delay  
TDElay :Transmit delay
- [Function] Sets type of measurement.
- [Screen] Type of Measure:Delay screen
- [Example use] > :SENSe:MEASure:DELay:TYPE LDElay

### :SENSe:MEASure:DELay:TYPE?

- [Parameter] None
- [Response] <type>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:DELay:TYPE.
- [Function] Queries the setting status of type of measurement.
- [Screen] Type of Measure:Delay screen
- [Example use] > :SENSe:MEASure:DELay:TYPE?  
< LDElay

### :SENSe:MEASure:DELay:INTerval <interval>

- [Parameter] <interval>=<STRING PROGRAM DATA>  
"OFF" :Off  
"SEC0\_5" :0.5s  
"SEC1" :1.0s  
"SEC5" :5.0s
- [Function] Sets the measurement period of the transmit delay measurement.
- [Screen] Interval of Measure:Delay screen.
- [Example use] > :SENSe:MEASure:DELay:INTerval "OFF"

### :SENSe:MEASure:DELay:INTerval?

- [Parameter] None
- [Response] <interval>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:DELay:INTerval.
- [Function] Queries the setting status of measurement period  
when measuring the transmit delay.
- [Screen] Interval of Measure:Delay screen
- [Example use] > :SENSe:MEASure:DELay:INTerval?  
< "OFF"

**:SENSe:MEASure:DELay:STTRigger <trigger>,<point>**

[Parameter]    <trigger>=<CHARACTER PROGRAM DATA>

ER	:	ER	C	:	C
DR	:	DR	I	:	I
RS	:	RS	IFOT	:	IFOT
CS	:	CS	IF1	:	IF1
CD	:	CD	IF3	:	IF3
CI	:	CI	IFOR	:	IFOR
TI	:	TI	IF2	:	IF2
LLB	:	LLB	IF4	:	IF4
RLB	:	RLB			

<point>=<STRING PROGRAM DATA>

"ON_OFF"	:	On->Off
"OFF_ON"	:	Off->On

[Function]    Sets the start trigger for the measurement of line interval delay.

[Screen]       Start trigger of Measure:Delay screen

[Example use] > :SENSe:MEASure:DELay:STTRigger ER,"ON\_OFF"

**:SENSe:MEASure:DELay:STTRigger?**

[Parameter]    None

[Response]     <trigger>=<CHARACTER RESPONSE DATA>

The same as :SENSe:MEASure:DELay:STTRigger.

<point>=<STRING RESPONSE DATA>

The same as :SENSe:MEASure:DELay:STTRigger.

[Function]    Queries the setting status of the start trigger when measuring the line interval delay.

[Screen]       Start trigger of Measure:Delay screen

[Example use] > :SENSe:MEASure:DELay:STTRigger?

< ER,"ON\_OFF"

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:DELay:SPTRigger <trigger>,<point>

[Parameter] <trigger>=<CHARACTER PROGRAM DATA>

ER	:ER	C	:C
DR	:DR	I	:I
RS	:RS	IFOT	:IFOT
CS	:CS	IF1	:IF1
CD	:CD	IF3	:IF3
CI	:CI	IFOR	:IFOR
TI	:TI	IF2	:IF2
LLB	:LLB	IF4	:IF4
RLB	:RLB		

<point>=<STRING PROGRAM DATA>

"ON_OFF"	:On->Off
"OFF_ON"	:Off->On

[Function] Sets the stop trigger for the measurement of line interval delay.

[Screen] Stop trigger of Measure:Delay screen.

[Example use] > :SENSe:MEASure:DELay:SPTRigger ER,"ON\_OFF"

### :SENSe:MEASure:DELay:SPTRigger?

[Parameter] None

[Response] <trigger>=<CHARACTER RESPONSE DATA>

The same as :SENSe:MEASure:DELay:SPTRigger.

<point>=<STRING RESPONSE DATA>

The same as :SENSe:MEASure:DELay:SPTRigger.

[Function] Queries the setting status of the stop trigger when measuring the line interval delay.

[Screen] Stop trigger of Measure:Delay screen.

[Example use] > :SENSe:MEASure:DELay:SPTRigger?  
< ER,"ON\_OFF"

### :SENSe:MEASure:FREQuency:STARt

[Parameter] None

[Function] Sets start of the Frequency measurement.

[Screen] Area for operating instruction button

[Restriction] The execution error occurs and this function is ignored when measurement is in progress.

[Example use] > :SENSe:MEASure:FREQuency:STARt

**:SENSe:MEASure:FREQuency:STOP**

[Parameter] None  
 [Function] Sets the stop of the Frequency measurement.  
 [Screen] Area for operating instruction button  
 [Example use] > :SENSe:MEASure:FREQuency:STOP

**:SENSe:MEASure:FREQuency:STATE?**

[Parameter] None  
 [Response] <state>=<CHARACTER RESPONSE DATA>  
     STOP       : Measurement is completed or measurement is not  
                   performed yet  
     STARt       : Measurement is in progress  
 [Function] Queries measurement status of Frequency.  
 [Screen] None  
 [Example use] > :SENSe:MEASure:FREQuency:STATE?  
                 < STOP

**:SENSe:MEASure:FREQuency:LINE <line>**

[Parameter] <line>=<STRING PROGRAM DATA>  
     "ST1"       :ST1  
     "ST2"       :ST2  
     "RT"       :RT  
     "S"       :S  
     "ST"       :ST  
     "RT:TX"   :RT(Tx)  
     "RT:RX"   :RT(Rx)  
 [Function] Sets object line of measurement.  
 [Screen] Line of Measure:Frequency screen  
 [Example use] > :SENSe:MEASure:FREQuency:LINE "ST1"

**:SENSe:MEASure:FREQuency:LINE?**

[Parameter] None  
 [Response] <line>=<STRING RESPONSE DATA>  
                  The same as :SENSe:MEASure:FREQuency:LINE.  
 [Function] Queries the setting status of object line of measurement.  
 [Screen] Line of Measure:Frequency screen.  
 [Example use] > :SENSe:MEASure:FREQuency:LINE?  
                 < "ST1"

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:FREQuency:GTIMe <gtime>

- [Parameter] <gtime>=<STRING PROGRAM DATA>  
"SEC0\_1" :0.1s  
"SEC1" :1.0s  
"SEC10" :10.0s
- [Function] Set the gate time.
- [Screen] Gate time of Measure:Frequency screen
- [Example use] > :SENSe:MEASure:FREQuency:GTIMe "SEC0\_1"

### :SENSe:MEASure:FREQuency:GTIMe?

- [Parameter] None
- [Response] <gtime>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:FREQuency:GTIMe.
- [Function] Queries the setting status of the gate time.
- [Screen] Gate time of Measure:Frequency screen
- [Example use] > :SENSe:MEASure:FREQuency:GTIMe?  
< "SEC0\_1"

### :SENSe:MEASure:FREQuency:INTerval <interval>

- [Parameter] <interval>=<STRING PROGRAM DATA>  
"OFF" :Off  
"SEC0\_5" :0.5s  
"SEC1" :1.0s  
"SEC5" :5.0s
- [Function] Sets the measurement interval.
- [Screen] Interval of Measure:Frequency screen
- [Example use] > :SENSe:MEASure:FREQuency:INTerval "OFF"

### :SENSe:MEASure:FREQuency:INTerval?

- [Parameter] None
- [Response] <interval>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:FREQuency:INTerval.
- [Function] Queries the setting status of measurement interval.
- [Screen] Interval of Measure:Frequency screen
- [Example use] > :SENSe:MEASure:FREQuency:INTerval?  
< "OFF"

## 6.4 SENSe Sub-system

### :SENSe:MEASure:DLEVel:STARt

[Parameter] None  
[Function] Sets the start of the Digital level measurement.  
[Screen] Area for operating instruction button  
[Restriction] The execution error occurs and this function is ignored when measurement is in progress.  
[Example use] > :SENSe:MEASure:DLEVel:STARt

### :SENSe:MEASure:DLEVel:STOP

[Parameter] None  
[Function] Sets the stop of the Digital level measurement.  
[Screen] Area for operating instruction button  
[Example use] > :SENSe:MEASure:DLEVel:STOP

### :SENSe:MEASure:DLEVel:STATE?

[Parameter] None  
[Response] <state>=<CHARACTER RESPONSE DATA>  
                  STOP       : Measurement is completed or measurement is not performed yet  
                  STARt      : Measurement is in progress  
[Function] Queries measurement status of Digital level.  
[Screen] None  
[Example use] > :SENSe:MEASure:DLEVel:STATE?  
                  < STOP

### :SENSe:MEASure:DLEVel:LSELect <dlline>

[Parameter] <dlline>=<CHARACTER PROGRAM DATA>  
                  TX       :Tx  
                  RX       :Rx  
[Function] Sets object line of measurement.  
[Screen] Line select of Measure:Digital level screen  
[Example use] > :SENSe:MEASure:DLEVel:LSELect TX

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:DLEVel:LSELect?

[Parameter] None  
[Response] <dlline>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:DLEVel:LSELect.  
[Function] Queries the setting status of object line of measurement.  
[Screen] Line select of Measure:Digital level screen  
[Example use] > :SENSe:MEASure:DLEVel:LSELect?  
< TX

### :SENSe:MEASure:DLEVel:PCODE <pcode>

[Parameter] <pcode>=<CHARACTER PROGRAM DATA>  
ULAW :μ-law  
ALAW :A-law  
[Function] Sets the PCM code.  
[Screen] PCM Code of Measure:Digital level screen  
[Example use] > :SENSe:MEASure:DLEVel:PCODE ULAW

### :SENSe:MEASure:DLEVel:PCODE?

[Parameter] None  
[Response] <pcode>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:DLEVel:PC0De.  
[Function] Queries the setting status of the PCM code.  
[Screen] PCM Code of Measure:Digital level screen  
[Example use] > :SENSe:MEASure:DLEVel:PCODE?  
< ULAW

### :SENSe:MEASure:WTRace:STARt

[Parameter] None  
[Function] Sets the start of the pattern trace of the Word trace measurement.  
[Screen] Area for operating instruction button  
[Restriction] The execution error occurs and this function is ignored when measurement is in progress.  
[Example use] > :SENSe:MEASure:WTRace:STARt

### :SENSe:MEASure:WTRace:STOP

[Parameter] None  
[Function] Sets the stop of the pattern trace of the Word trace measurement.  
[Screen] Area for operating instruction button  
[Example use] > :SENSe:MEASure:WTRace:STOP

## 6.4 SENSe Sub-system

### :SENSe:MEASure:WTRace:STATE?

[Parameter] None  
[Response] <state>=<CHARACTER RESPONSE DATA>  
    STOP       : Measurement is completed except for the case of waiting  
                  for start trigger or measurement is not performed yet  
    STWait      : Waiting for start trigger  
    START      : Measurement is in progress  
[Function] Queries measurement status of Word trace.  
[Screen] None  
[Example use] > :SENSe:MEASure:WTRace:STATE?  
                < STOP

### :SENSe:MEASure:WTRace:TLINe <tline>

[Parameter] <tline>=<CHARACTER PROGRAM DATA>  
    TX       :Tx  
    RX       :Rx  
[Function] Sets the line to trace.  
[Screen] Condition:Trace line of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:TLINe TX

### :SENSe:MEASure:WTRace:TLINe?

[Parameter] None  
[Response] <tline>=<CHARACTER RESPONSE DATA>  
    The same as :SENSe:MEASure:WTRace:TLINe.  
[Function] Queries the setting status of the line to trace.  
[Screen] Condition:Trace line of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:TLINe?  
                < TX

### :SENSe:MEASure:WTRace:STTRigger <sttrigger>

[Parameter] <sttrigger>=<CHARACTER PROGRAM DATA>  
    SCODE   :Sync code  
    MANual  :Manual  
[Function] Sets trigger to start trace.  
[Screen] Condition:Start trigger of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:STTRigger SCODE

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:WTRace:STTRigger?

[Parameter] None  
[Response] <sttrigger>=<CHARACTER RESPONSE DATA>  
The same as :SENSe:MEASure:WTRace:STTRigger.  
[Function] Queries the setting status of the trace start trigger.  
[Screen] Condition:Start trigger of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:STTRigger?  
< SCOD

### :SENSe:MEASure:WTRace:STPattern <stpatter>

[Parameter] <stpatter>=<STRING PROGRAM DATA>  
"00000000" to "11111111","XXXXXXXX"  
"00000000" to "11111111","XXXXXXXX"  
"000000" to "111111","XXXXXX"  
"00000" to "11111","XXXX"  
[Function] Sets the code to start trace.  
[Screen] Condition:Pattern of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:STPattern "XXXX0011"

### :SENSe:MEASure:WTRace:STPattern?

[Parameter] None  
[Response] <stpatter>=<STRING RESPONSE DATA>  
The same as :SENSe:MEASure:WTRace:STPattern.  
[Function] Queries the setting status of the trace start code.  
[Screen] Condition:Pattern of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:STPattern?  
< "XXXX0011"

### :SENSe:MEASure:WTRace:SPTTrigger <spttrigger>

[Parameter] <spttrigger>=<CHARACTER PROGRAM DATA>  
MANual :Manual  
CODE :Code  
NCODE :Not code  
BYTE :Byte  
[Function] Sets the trigger to stop trace.  
[Screen] Condition:Stop trigger of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:SPTTrigger MANual

**:SENSe:MEASure:WTRace:SPTRigger ?**

[Parameter] None  
 [Response] <sptrigger>=<CHARACTER RESPONSE DATA>  
     The same as :SENSe:MEASure:WTRace:STRigger.  
 [Function] Queries the setting status of trace stop trigger.  
 [Screen] Condition:Stop trigger of Measure:Word trace screen  
 [Example use] > :SENSe:MEASure:WTRace:SPTRigger ?  
     < MAN

**:SENSe:MEASure:WTRace:SPPattern <sppattern>**

[Parameter] <sppattern>=<STRING PROGRAM DATA>  
     "00000000" to "11111111","XXXXXXXX"  
     "00000000" to "11111111","XXXXXXXX"  
     "000000" to "111111","XXXXXX"  
     "00000" to "11111","XXXXX"  
 [Function] Sets the code to stop trace.  
 [Screen] Condition:Pattern of Measure:Word trace screen  
 [Example use] > :SENSe:MEASure:WTRace:SPPattern "XXXX0011"

**:SENSe:MEASure:WTRace:SPPattern?**

[Parameter] None  
 [Response] <sppattern>=<STRING RESPONSE DATA>  
     The same as :SENSe:MEASure:WTRace:SPPattern.  
 [Function] Queries the setting status of trace stop code.  
 [Screen] Condition:Pattern of Measure:Word trace screen  
 [Example use] > :SENSe:MEASure:WTRace:SPPattern?  
     < "XXXX0011"

**:SENSe:MEASure:WTRace:TBYTe <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
     10 to 131068 (step 1)  
 [Function] Sets the number of trace bytes.  
 [Screen] Condition:Trace byte of Measure:Word trace screen  
 [Example use] > :SENSe:MEASure:WTRace:TBYTe 10

## SECTION 6 REMOTE COMMANDS

### :SENSe:MEASure:WTRace:TBYTe?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:WTRace:TBYTe.  
[Function] Queries the setting status of the number of trace bytes.  
[Screen] Condition:Trace byte of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:TBYTe?  
< 10

### :SENSe:MEASure:WTRace:SDELay <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 8000 (step 1)  
[Function] Sets the stop delay.  
[Screen] Condition:Stop delay of Measure:Word trace screen  
[Example use] > :SENSe:MEASure:WTRace:SDELay 0

### :SENSe:MEASure:WTRace:SDELay?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :SENSe:MEASure:WTRace:SDELay.  
[Function] Queries the setting status of stop delay.  
[Screen] Condition:Stop delay of Measure:Word trace screen.  
[Example use] > :SENSe:MEASure:WTRace:SDELay?  
< 0

### :SENSe:MEASure:PMONitor:STARt

[Parameter] None  
[Function] Sets the start of the Protocol monitor.  
[Screen] Analyze:Protocol monitor screen  
[Restriction] The execution error occurs and this function is ignored when monitor is in progress.  
[Example use] > :SENSe:MEASure:PMONitor:STARt

### :SENSe:MEASure:PMONitor:STOP

[Parameter] None  
[Function] Sets the stop of the Protocol monitor.  
[Screen] Analyze:Protocol monitor screen  
[Example use] > :SENSe:MEASure:PMONitor:STOP

## 6.4 SENSe Sub-system

### **:SENSe:MEASure:PMONitor:STATe?**

[Parameter] None  
[Response] <state>=<CHARACTER RESPONSE DATA>  
              STOP       : Protocol monitor is being stopped.  
              STARt      : Protocol monitor is in progress.  
[Function]    Queries monitor status of Protocol monitor.  
[Screen]      Analyze:Protocol monitor screen  
[Example use] > :SENSe:MEASure:PMONitor:STATe?  
              < STOP

### **:SENSe:MEASure:PMONitor:CLEar**

[Parameter] None  
[Function]    Clears the displayed Protocol monitor data.  
[Screen]      Analyze:Protocol monitor screen  
[Example use] > :SENSe:MEASure:PMONitor:CLEar

## SECTION 6 REMOTE COMMANDS

### 6.5 DISPlay Sub-system

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#### :DISPlay:DSELect[:NAME] <dselect>

[Parameter]	<dselect>=<STRING PROGRAM DATA>
	"SETup:IOUTput" :Setup:Input/Output screen
	"SETup:MEMory" :Setup:Memory screen
	"SETup:SYSTem" :Setup:System screen
	"SETup:PRINT" :Setup:Print screen
	"SETup:FDISk" :Setup:Floppy disk screen
	"SETup:SELFtest" :Setup:Selftest screen
	"SETup:OREVision" :Setup:Option/Revision screen
	"INTerface" :Interface:Interface screen
	"MEASure:EALarm" :Measure>Error/Alarm screen
	"MEASure:FRELay" :Measure>Frame relay screen
	"MEASure:DELay" :Measure>Delay screen
	"MEASure:FREQuency" :Measure>Frequency screen
	"MEASure:DLEVel" :Measure>Digital level screen
	"MEASure:WTRace" :Measure>Word trace screen
	"ANALyze:EALarm" :Analyze>Error/Alarm screen
	"ANALyze:TDAta" :Analyze>Trace data screen
	"ANALyze:PMONitor" :Analyze>Protocol monitor screen
	"ANALyze:RECall" :Analyze>Recall screen
[Function]	Selects a sub-screen to be displayed.
[Screen]	
[Example use]	> :DISPlay:DSELect "SETup:IOUTput"

#### :DISPlay:DSELect[:NAME]?

[Parameter]	None
[Response]	<dselect>=<STRING RESPONSE DATA> The same as: DISPlay:DSELect[:NAME].
[Function]	Queries a sub-screen being displayed.
[Screen]	
[Example use]	> :DISPlay:DSELect? < "SET:IOUT"

## 6.5 DISPlay Sub-system

### :DISPlay:SYSTem[:NAME] <system>

- [Parameter]    <system>=<CHARACTER PROGRAM DATA>  
                  SSCommon        :Setup:System(Common) screen  
                  SSInterface    :Setup:System(Interface) screen
- [Function]     Selects an extended display screen in the Setup:System screen.
- [Screen]       Setup:System screen
- [Example use] > :DISPlay:SYSTem SSCommon

### :DISPlay:SYSTem[:NAME]?

- [Parameter]    None
- [Response]      <system>=<CHARACTER RESPONSE DATA>  
                  The same as :DISPlay:SYSTem[:NAME].
- [Function]     Queries an extended screen being displayed in the Setup:System screen.
- [Screen]       Setup:System screen.
- [Example use] > :DISPlay:SYSTem?  
                  < SSC

### :DISPlay:SYSTem:ITYPE <iType>

- [Parameter]    <iType>=<CHARACTER PROGRAM DATA>  
                  VXTCmos       :V/X/TTL/CMOS  
                  K64            :G.703 64k  
                  K192           :I.430/I.430-a 192k  
                  M1\_5           :G.704/I.431 1.544M  
                  M2            :G.704/I.431 2.048M
- [Function]     Sets screen change, depending on the type of interface.
- [Screen]       Interface type of Setup:System screen.
- [Restriction] Exists the parameter depending on sort of the interface unit.  
                 MU643000A      : All parameters are available.  
                 MU643000B/K    : M2 is unavailable.  
                 MU643000C    : M1\_5 is unavailable.  
Also, if the call control option (opt-01 or opt-02) is not installed, can not use M1\_5 parameter. (execution error)
- [Example use] > :DISPlay:SYSTem:ITYPE VXTCmos

## SECTION 6 REMOTE COMMANDS

### :DISPlay:SYSTem:ITYPe?

[Parameter] None  
[Response] <itype>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:SYSTem:ITYPe  
[Function] Queries the setting status of screen change by the type of interface.  
[Screen] Interface type of Setup:System screen.  
[Example use] > :DISPlay:SYSTem:ITYPe?  
< VXTc

### :DISPlay:FDISK:SCRoll <scroll>

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
BPAGe :Scrolls file/directory one page up. ....   
NPAGe :Scrolls file/directory one page down. ....   
UMOVe :Moves the screen one line up. ....   
DMOVe :Moves the screen one line down. ....   
[Function] Sets the display position of file/directory.  
[Screen] Setup:Floppy disk screen  
[Example use] > :DISPlay:FDISK:SCRoll BPAGe

### :DISPlay:INTerface:TX:BPAGe

[Parameter] None  
[Function] Sets a screen to scroll one page to a next new page.  
[Screen] Tx of Interface screen.  
[Example use] > :DISPlay:INTerface:TX:BPAGe

### :DISPlay:INTerface:TX:NPAGe

[Parameter] None  
[Function] Sets a screen to scroll one page to the previous page.  
[Screen] Tx of Interface screen.  
[Example use] > :DISPlay:INTerface:TX:NPAGe

## 6.5 DISPlay Sub-system

### :DISPlay:INTerface:TX:STATe?

[Parameter] None  
[Response] <dtype>=<CHARACTER RESPONSE DATA>  
PAGE1 :Low speed Tx screen (1) or high speed Tx screen (1)  
PAGE2 :High speed Tx screen (2)  
PAGE3 :High speed Tx screen (3)  
PAGE4 :High speed Tx screen (4)  
PAGE5 :High speed Tx screen (5)  
PAGE6 :High speed Tx screen (6)  
[Function] Queries the current Interface screen being displayed.  
[Screen] Tx of Interface screen.  
[Example use] > :DISPlay:INTerface:TX:STATe?  
< PAGE3

### :DISPlay:INTerface:RX:BPAGe

[Parameter] None  
[Function] Sets a screen to scroll one page to a next new page.  
[Screen] Rx of Interface screen.  
[Example use] > :DISPlay:INTerface:RX:BPAGe

### :DISPlay:INTerface:RX:NPAGe

[Parameter] None  
[Function] Sets a screen to scroll one page to the previous page.  
[Screen] Rx of Interface screen.  
[Example use] > :DISPlay:INTerface:RX:NPAGe

### :DISPlay:INTerface:RX:STATe?

[Parameter] None  
[Response] <dtype>=<CHARACTER RESPONSE DATA>  
PAGE1 :Low speed Rx screen (1) or high speed Rx screen (1)  
PAGE2 :High speed Rx screen (2)  
PAGE3 :High speed Rx screen (3)  
PAGE4 :High speed Rx screen (4)  
PAGE5 :High speed Rx screen (5)  
PAGE6 :High speed Rx screen (6)  
[Function] Queries the current Interface screen being displayed.  
[Screen] Rx of Interface screen.  
[Example use] > :DISPlay:INTerface:RX:STATe?  
< PAGE1

## SECTION 6 REMOTE COMMANDS

### **:DISPlay:EALarm[:NAME] <ealarm>**

[Parameter]    <ealarm>=<CHARACTER PROGRAM DATA>  
                  MEC1                :Measure:Error/Alarm(Cond.1)screen  
                  MEC2                :Measure:Error/Alarm(Cond.2)screen  
                  MECHaracter      :Measure:Error/Alarm(Character)screen  
                  MEResult          :Measure:Error/Alarm(Result)screen  
                  MECas              :Measure:Error/Alarm(CAS)screen  
                  MEFas              :Measure:Error/Alarm(FAS)screen  
  
[Function]     Selects an extended display screen in the Measure:Error/Alarm screen.  
[Screen]       Measure:Error/Alarm screen  
[Example use] > :DISPlay:EALarm MEC1

### **:DISPlay:EALarm[:NAME]?**

[Parameter]    None  
[Response]      <ealarm>=<CHARACTER RESPONSE DATA>  
                  The same as :DISPlay:EALarm[:NAME].  
[Function]     Queries an extended screen being displayed in the Measure:Error/Alarm screen.  
[Screen]       Measure:Error/Alarm screen  
[Example use] > :DISPlay:EALarm?  
                  < MEC1

### **:DISPlay:EALarm:MTIMe <mtime>**

[Parameter]    <mtime>=<CHARACTER PROGRAM DATA>  
                  STIMe        :Start time  
                  ETIMe        :Elapsed time  
[Function]     Selects measurement time to be displayed.  
[Screen]       Measure:Error/Alarm screen  
[Example use] > :DISPlay:EALarm:MTIMe STIMe

### **:DISPlay:EALarm:MTIMe?**

[Parameter]    None  
[Response]      <mtime>=<CHARACTER RESPONSE DATA>  
                  The same as: DISPlay:EALarm:MTIMe.  
[Function]     Queries a measurement time being displayed.  
[Screen]       Measure:Error/Alarm screen  
[Example use] > :DISPlay:EALarm:MTIMe?  
                  < STIM

**:DISPlay:EALarm:CHARacter:EMODe <emode>**

[Parameter]      <emode>=<CHARACTER PROGRAM DATA>  
                   HEX :Hex  
                   ASCii :ASCII  
 [Function]       Sets the edit mode.  
 [Screen]        Character: Edit mode of Measure: Error/Alarm screen.  
 [Example use]    > :DISPlay:EALarm:CHARacter:EMODe HEX

**:DISPlay:EALarm:CHARacter:EMODe?**

[Parameter]      None  
 [Response]       <emode>=<CHARACTER RESPONSE DATA>  
                   The same as: DISPlay:EALarm:CHARacter:EMODe.  
 [Function]       Queries the setting status of the edit mode.  
 [Screen]        Character: Edit mode of Measure: Error/Alarm screen.  
 [Example use]    > :DISPlay:EALarm:CHARacter:EMODe?  
                   < HEX

**:DISPlay:EALarm:CHARacter:DModE <dmode>**

[Parameter]      <dmode>=<CHARACTER PROGRAM DATA>  
                   OFF :Off  
                   HEX :Hex  
                   ASCii :ASCII  
                   EDIC :EBCDIC  
                   EDIK :EBCDIK  
                   JIS8 :JIS8  
                   EBCD :EBCD  
                   BAUDot :Baudot  
 [Function]       Sets the display mode.  
 [Screen]        Character: Display mode of Measure: Error/Alarm screen.  
 [Example use]    > :DISPlay:EALarm:CHARacter:DModE HEX

**:DISPlay:EALarm:CHARacter:DModE?**

[Parameter]      None  
 [Response]       <dmode>=<CHARACTER RESPONSE DATA>  
                   The same as :DISPlay:EALarm:CHARacter:DModE.  
 [Function]       Queries the setting status of the display mode.  
 [Screen]        Character:Display mode of Measure:Error/Alarm screen.  
 [Example use]    > :DISPlay:EALarm:CHARacter:DModE?  
                   < HEX

## SECTION 6 REMOTE COMMANDS

### :DISPlay:EALarm:CHARacter:ADDRess <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 2047 (step 1)  
[Function] Sets the display start address.  
[Screen] Character of Measure:Error/Alarm screen.  
[Example use] > :DISPlay:EALarm:CHARacter:ADDRess 0

### :DISPlay:EALarm:CHARacter:ADDRess?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :DISPlay:EALarm:CHARacter:ADDRess.  
[Function] Queries the setting status of the display start address.  
[Screen] Character of Measure:Error/Alarm screen.  
[Example use] > :DISPlay:EALarm:CHARacter:ADDRess?  
< 0

### :DISPlay:EALarm:CHARacter:SCRoll <scroll>

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
BPAGe :Scrolls character pattern one page up. ....   
NPAGe :Scrolls character pattern one page down ...   
UMOVe :Scrolls character pattern one line up. ....   
DMOVe :Scrolls character pattern one line down. ...   
[Function] Sets the display position of a character pattern.  
[Screen] Character of Measure:Error/Alarm screen.  
[Example use] > :DISPlay:EALarm:CHARacter:SCRoll BPAGe

### :DISPlay:EALarm:RESUlt[:TYPE] <type>

[Parameter] <type>=<CHARACTER PROGRAM DATA>  
ALL :All  
ZOOM :Zoom  
[Function] Sets the result display format.  
[Screen] Result:Type of Measure:Error/Alarm screen.  
[Example use] > :DISPlay:EALarm:RESUlt ALL

**:DISPlay:EALarm:RESUlt[:TYPE]?**

[Parameter] None  
 [Response] <type>=<CHARACTER RESPONSE DATA>  
     The same as :DISPlay:EALarm:RESUlt[:TYPE].  
 [Function] Queries the setting status of the result display format.  
 [Screen] Result:Type of Measure:Error/Alarm screen.  
 [Example use] > :DISPlay:EALarm:RESUlt?  
     < ALL

**:DISPlay:EALarm:RESUlt:MODE <rmode>**

[Parameter] <rmode>=<CHARACTER PROGRAM DATA>  
     CURRent :Current  
     LAST :Last  
 [Function] Sets the measured result display mode.  
 [Screen] Result:Display data of Measure:Error/Alarm screen.  
 [Example use] > :DISPlay:EALarm:RESUlt:MODE CURRent

**:DISPlay:EALarm:RESUlt:MODE?**

[Parameter] None  
 [Response] <rmode>=<CHARACTER RESPONSE DATA>  
     The same as :DISPlay:EALarm:RESUlt:MODE.  
 [Function] Queries the setting status of the measured result display mode.  
 [Screen] Result:Display data of Measure:Error/Alarm screen.  
 [Example use] > :DISPlay:EALarm:RESUlt:MODE?  
     < CURR

**:DISPlay:EALarm:RESUlt:RDISplay <vtype>,<rdisplay>**

[Parameter] <vtype>=<CHARACTER PROGRAM DATA>  
     LEFT :Displays the left side of the measured result.  
     RIGHT :Displays the right side of the measured result.  
     <rdisplay>=<CHARACTER PROGRAM DATA>  
         TERRor :Tx Error  
         TALarm :Tx Alarm  
         RERRor :Rx Error  
         RALarm :Rx Alarm  
 [Function] Sets the measured result display.  
 [Screen] Result of Measure:Error/Alarm screen.  
 [Example use] > :DISPlay:EALarm:RESUlt:RDISplay LEFT,TERRor

## SECTION 6 REMOTE COMMANDS

### :DISPlay:EALarm:RESUlt:RDISplay? <vtype>

- [Parameter] <vtype>=<CHARACTER PROGRAM DATA>  
The same as :DISPlay:EALarm:RESUlt:RDISplay.
- [Response] <rdisplay>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:EALarm:RESUlt:RDISplay.
- [Function] Queries the setting status of the measured result display.
- [Screen] Result of Measure:Error/Alarm screen.
- [Example use] > :DISPlay:EALarm:RESUlt:RDISplay? LEFT  
< TERR

### :DISPlay:EALarm:RESUlt:MORE <vtype>,<pdisplay>

- [Parameter] <vtype>=<CHARACTER PROGRAM DATA>  
LEFT :Displays the left side of the measured result.  
RIGHT :Displays the right side of the measured result.
- <pdisplay>=<CHARACTER PROGRAM DATA>  
OFF :Off  
G821 :Error performance (G.821)  
G826 :Error performance (G.826)  
M2100 :Error performance (M.2100)  
HDLC :HDLC Frame
- [Function] Sets the error measured result display.
- [Screen] Result of Measure:Error/Alarm screen.
- [Example use] > :DISPlay:EALarm:RESUlt:MORE LEFT,OFF

### :DISPlay:EALarm:RESUlt:MORE? <vtype>

- [Parameter] <vtype>=<CHARACTER PROGRAM DATA>  
The same as :DISPlay:EALarm:RESUlt:MORE.
- [Response] <pdisplay>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:EALarm:RESUlt:MORE.
- [Function] Queries the setting status of the error measured result display.
- [Screen] Result of Measure:Error/Alarm screen.
- [Example use] > :DISPlay:EALarm:RESUlt:MORE? LEFT  
< OFF

## 6.5 DISPlay Sub-system

**:DISPlay:EALarm:RESUlt:ZOOM <vtype>,<item1>,<item2>,<item3>**

[Parameter]	<vtype>=<CHARACTER PROGRAM DATA>
	LEFT :Displays the left side of the measured result.
	RIGHT :Displays the right side of the measured result.
	<item1>,<item2>,<item3>=<STRING PROGRAM DATA>
	"OFF" :Off "G826:ESR" :G.826 ESR
	"EC" :Error count "G826:SESR" :G.826 SESR
	"ER" :Error rate "G826:BBER" :G.826 BBER
	"BEC" :Block error count "G826:US" :G.826 US
	"BER" :Block error rate "G826:AT" :G.826 AT
	"ES" :ES "M2100:ES" :M.2100 ES
	"EFS" :EFS "M2100:SES" :M.2100 SES
	"CSC" :Clock slip count "M2100:US" :M.2100 US
	"CSS" :Clock slip second "M2100:AT" :M.2100 AT
	"CEC" :Character error count "M2100:TEST" :M.2100 TEST
	"PC" :PSL Count "BFC" :Bad frame count
	"G821:ES2" :G.821 ES "AFC" :Abort frame count
	"G821:EFS2" :G.821 EFS "AA" :All alarm
	"G821:SES2" :G.821 SES "PF" :Power fail
	"G821:US2" :G.821 US "PSL" :PSL
	"G821:DM2" :G.821 DM "OPD" :OPD
	"G821:AT2" :G.821 AT "FLGL" :FLGL
	"G821:ES" :G.821 %ES "ALL0" :ALL0
	"G821:ES3" :G.821 And%ES "ALL1" :ALL1
	"G821:EFS" :G.821 %EFS "LOS" :LOS
	"G821:SES" :G.821 %SES "LOF" :LOF
	"G821:US" :G.821 %US "MLOSS" :MF Loss
	"G821:DM" :G.821 %DM "AIS" :AIS
	"G821:AT" :G.821 %AT "SA" :SA
	"G826:EB" :G.826 EB "XL" :XL
	"G826:ES" :G.826 ES "XA" :XA
	"G826:SES" :G.826 SES "RAI" :RAI
	"G826:BBE" :G.826 BBE "DISC" :Disconnection
[Function]	Sets a display item to be zoomed.
[Screen]	Result of Measure>Error/Alarm screen.
[Restriction]	Exists the parameter depending on the sort of the interface unit. MU643000A : All parameters are available. MU643000B/K : All parameters are available. MU643000C : "SA" is unavailable. If the call control option (opt-01 or opt-02) is not installed, can not use "DISC" parameter. (execution error)
[Example use]	> :DISPlay:EALarm:RESUlt:ZOOM LEFT,"EC","ER","BEC"

## SECTION 6 REMOTE COMMANDS

### :DISPlay:EALarm:RESult:ZOOM? <vtype>

- [Parameter] <vtype>=<CHARACTER PROGRAM DATA>  
The same as :DISPlay:EALarm:RESult:ZOOM.
- [Response] <item1>,<item2>,<item3>=<STRING RESPONSE DATA>  
The same as :DISPlay:EALarm:RESult:ZOOM.
- [Function] Queries the setting status of a display item to be zoomed.
- [Screen] Result of Measure:Error/Alarm screen.
- [Example use] > :DISPlay:EALarm:RESult:ZOOM? LEFT  
< "EC","ER","BEC"

### :DISPlay:EALarm:ASINs:MORE

- [Parameter] None
- [Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.
- [Screen] Alarm/Signal Ins. Of Measure:Error/Alarm screen.
- [Restriction] The command may be unavailable depending on the interface unit to be used.  
MU643000A : Available  
MU643000B/K : Available  
MU643000C : Unavailable (execution error)
- [Example use] > :DISPlay:EALarm:ASINs:MORE

### :DISPlay:EALarm:ASINs:MORE?

- [Parameter] None
- [Response] <more>=<CHARACTER RESPONSE DATA>  
PAGE1 : Alarm/Signal Ins. screen (1)  
PAGE2 : Alarm/Signal Ins. screen (2)
- [Function] Queries the Alarm/Signal Ins. Screen currently displayed.
- [Screen] Alarm/Signal Ins. Of Measure:Error/Alarm screen.
- [Restriction] The same as :DISPlay:EALarm:ASINs:MORE.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] > :DISPlay:EALarm:ASINs:MORE?  
< PAGE1

**:DISPlay:EALarm:FAS:SElect**

[Parameter] None  
 [Function] Sets the indication on the Measure:Error/Alarm(FAS) screen.  
 [Screen] Measure:Error/Alarm(FAS) screen  
 [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
                  (Execution error)  
 [Example use] > :DISPlay:EALarm:FAS:SElect

**:DISPlay:EALarm:FAS:SElect?**

[Parameter] None  
 [Response] <select>=<CHARACTER RESPONSE DATA>  
     TXSend           :Tx sending  
     TXMonitor       :Tx monitoring  
     RXMonitor       :Rx monitoring  
 [Function] Queries the setting status of the indication on Measure:Error/Alarm(FAS) screen.  
 [Screen] Measure:Error/Alarm(FAS) screen  
 [Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.  
 [Example use] > :DISPlay:EALarm:FAS:SElect?  
                  < TXS

**:DISPlay:EALarm:FAS:TXPause <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the pause indication of Tx monitoring on Measure:Error/Alarm(FAS) screen.  
 [Screen] Tx monitoring on Measure:Error/Alarm(FAS) screen.  
 [Restriction] If CAS/FAS options are not installed, the command is unavailable.  
                  (Execution error)  
 [Example use] > :DISPlay:EALarm:FAS:TXPause 0

## SECTION 6 REMOTE COMMANDS

### :DISPlay:EALarm:FAS:TXPause?

- [Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
              :The same as :DISPlay:EALarm:FAS:TXPause.  
[Function] Queries the setting status of the pause indication of Tx monitoring on Measure:Error/Alarm(FAS) screen.  
[Screen] Tx monitoring on Measure:Error/Alarm(FAS) screen.  
[Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.  
[Example use] > :DISPlay:EALarm:FAS:TXPause?  
              <0

### :DISPlay:EALarm:FAS:RXPause <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
              OFF or 0 :Off  
              ON or 1 :On  
[Function] Sets the pause indication of Rx monitoring on Measure:Error/Alarm(FAS) screen.  
[Screen] Rx monitoring on Measure:Error/Alarm(FAS) screen.  
[Restriction] If CAS/FAS options are not installed, the command is unavailable.  
              (Execution error)  
[Example use] > :DISPlay:EALarm:FAS:RXPause 0

### :DISPlay:EALarm:FAS:RXPause?

- [Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
              :The same as :DISPlay:EALarm:FAS:RPause.  
[Function] Queries the setting status of the pause indication of Rx monitoring on Measure:Error/Alarm(FAS) screen.  
[Screen] Rx monitoring on Measure:Error/Alarm(FAS) screen  
[Restriction] If CAS/FAS options are not installed, no response data occurs and the execution error is returned.  
[Example use] > :DISPlay:EALarm:FAS:RXPause?  
              <0

**:DISPlay:FRELay:MTIMe <mtime>**

[Parameter] <mtime>=<CHARACTER PROGRAM DATA>  
                   STIMe :Start time  
                   ETIMe :Elapsed time

[Function] Selects measurement time to be displayed.

[Screen] Measure:Frame relay screen

[Example use] > :DISPlay:FRELay:MTIMe STIMe

**:DISPlay:FRELay:MTIMe?**

[Parameter] None

[Response] <mtime>=<CHARACTER RESPONSE DATA>  
                   The same as: DISPlay:FRELay:MTIMe.

[Function] Queries a measurement time being displayed.

[Screen] Measure:Frame relay screen

[Example use] > :DISPlay:FRELay:MTIMe?  
                   < STIM

**:DISPlay:FRELay:ASINs:MORE**

[Parameter] None

[Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.

[Screen] Alarm/Signal Ins. of Measure:Frame relay screen.

[Restriction] The command may be unavailable depending on the interface unit to be used.  
                   MU643000A : Available  
                   MU643000B/K : Available  
                   MU643000C : Unavailable (execution error)

[Example use] > :DISPlay:FRELay:ASINs:MORE

**:DISPlay:FRELay:ASINs:MORE?**

[Parameter] None

[Response] <more>=<CHARACTER RESPONSE DATA>  
                   PAGE1 : Alarm/Signal Ins. screen (1)  
                   PAGE2 : Alarm/Signal Ins. screen (2)

[Function] Queries the Alarm/Signal Ins. Screen currently displayed.

[Screen] Alarm/Signal Ins. of Measure:Frame relay screen.

[Restriction] The same as :DISPlay:FRELay:ASINs:MORE.  
                   If the unavailable command is executed, no response data occurs and the execution error is returned.

[Example use] > :DISPlay:FRELay:ASINs:MORE?  
                   < PAGE1

## SECTION 6 REMOTE COMMANDS

### :DISPlay:DELay:ASINs:MORE

- [Parameter] None  
[Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.  
[Screen] Alarm/Signal Ins. of Measure:Delay screen.  
[Restriction] The command may be unavailable depending on the interface unit to be used.  
                  MU643000A : Available  
                  MU643000B/K : Available  
                  MU643000C : Unavailable (execution error)

[Example use] > :DISPlay:DELay:ASINs:MORE

### :DISPlay:DELay:ASINs:MORE?

- [Parameter] None  
[Response] <more>=<CHARACTER RESPONSE DATA>  
              PAGE1 : Alarm/Signal Ins. screen (1)  
              PAGE2 : Alarm/Signal Ins. screen (2)  
[Function] Queries the Alarm/Signal Ins. Screen currently displayed.  
[Screen] Alarm/Signal Ins. of Measure:Delay screen.  
[Restriction] :The same as :DISPlay:DELay:ASINs:MORE.  
              If the unavailable command is executed, no response data occurs and the execution error is returned.  
[Example use] > :DISPlay:DELay:ASINs:MORE?  
              < PAGE1

### :DISPlay:FREQuency:ASINs:MORE

- [Parameter] None  
[Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.  
[Screen] Alarm/Signal Ins. of Measure:FREQuency screen.  
[Restriction] The command may be unavailable depending on the interface unit to be used.  
                  MU643000A : Available  
                  MU643000B/K : Available  
                  MU643000C : Unavailable (execution error)

[Example use] > :DISPlay:FREQuency:ASINs:MORE

**:DISPlay:FREQuency:ASINs:MORE?**

[Parameter] None  
 [Response] <more>=<CHARACTER RESPONSE DATA>  
     PAGE1 : Alarm/Signal Ins. screen (1)  
     PAGE2 : Alarm/Signal Ins. screen (2)  
 [Function] Queries the Alarm/Signal Ins. Screen currently displayed.  
 [Screen] Alarm/Signal Ins. of Measure:FREQuency screen.  
 [Restriction] :The same as :DISPlay:FREQuency:ASINs:MORE.  
     If the unavailable command is executed, no response data occurs and the execution error is returned.  
 [Example use] > :DISPlay:FREQuency:ASINs:MORE?  
           < PAGE1

**:DISPlay:DLEVel:ASINs:MORE**

[Parameter] None  
 [Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.  
 [Screen] Alarm/Signal Ins. of Measure:Digital level screen.  
 [Restriction] The command may be unavailable depending on the interface unit to be used.  
     MU643000A : Available  
     MU643000B/K : Available  
     MU643000C : Unavailable (execution error)  
 [Example use] > :DISPlay:DLEVel:ASINs:MORE

**:DISPlay:DLEVel:ASINs:MORE?**

[Parameter] None  
 [Response] <more>=<CHARACTER RESPONSE DATA>  
     PAGE1 : Alarm/Signal Ins. screen (1)  
     PAGE2 : Alarm/Signal Ins. screen (2)  
 [Function] Queries the Alarm/Signal Ins. Screen currently displayed.  
 [Screen] Alarm/Signal Ins. of Measure:Digital level screen.  
 [Restriction] :The same as :DISPlay:DLEVel:ASINs:MORE.  
     If the unavailable command is executed, no response data occurs and the execution error is returned.  
 [Example use] > :DISPlay:DLEVel:ASINs:MORE?  
           < PAGE1

## SECTION 6 REMOTE COMMANDS

### :DISPlay:WTRace[:NAME] <wtrace>

[Parameter] <wtrace>=<CHARACTER PROGRAM DATA>  
MWCondition :Measure:Word trace(Condition)screen  
MWPData :Measure:Word trace(PRGM Data)screen  
[Function] Selects an extended display screen in the Measure:Word trace screen.  
[Screen] Measure:Word trace screen  
[Example use] > :DISPlay:WTRace MWCondition

### :DISPlay:WTRace[:NAME]?

[Parameter] None  
[Response] <wtrace>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:WTRace[:NAME].  
[Function] Queries an extended display screen in the Measure:Word trace screen.  
[Screen] Measure:Word trace screen  
[Example use] > :DISPlay:WTRace?  
< MWC

### :DISPlay:WTRace:PRGMdata:EMODe <emode>

[Parameter] <emode>=<CHARACTER PROGRAM DATA>  
HEX :Hex  
BIN :Bin  
ASCii :ASCII  
[Function] Sets the edit mode.  
[Screen] PRGM Data>Edit mode of Measure:Word trace screen.  
[Example use] > :DISPlay:WTRace:PRGMdata:EMODe HEX

### :DISPlay:WTRace:PRGMdata:EMODe?

[Parameter] None  
[Response] <emode>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:WTRace:PRGMdata:EMODe.  
[Function] Queries the setting status of the edit mode.  
[Screen] PRGM Data>Edit mode of Measure:Word trace screen.  
[Example use] > :DISPlay:WTRace:PRGMdata:EMODe?  
< HEX

**:DISPlay:WTRace:PRGMdata:DMode <dmode>**

[Parameter]    <dmode>=<CHARACTER PROGRAM DATA>

OFF	:Off
HEX	:Hex
ASCii	:ASCII
EDIC	:EBCDIC
EDIK	:EBCDIK
JIS8	:JIS8
EBCD	:EBCD
BAUDot	:Baudot

[Function]    Sets the display mode.

[Screen]      PRGM Data :Display mode of Measure:Word trace screen.

[Example use]   > :DISPlay:WTRace:PRGMdata:DMode HEX

**:DISPlay:WTRace:PRGMdata:DMode?**

[Parameter]    None

[Response]    <dmode>=<CHARACTER RESPONSE DATA>

The same as: DISPlay:WTRace:PRGMdata:DMode.

[Function]    Queries the setting status of the display mode.

[Screen]      PRGM Data:Display mode of Measure:Word trace screen.

[Example use]   > :DISPlay:WTRace:PRGMdata:DMode?  
< HEX

**:DISPlay:WTRace:PRGMdata:ADDRess <numeric>**

[Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 262143 (step 1)

[Function]    Sets the display start address.

[Screen]      PRGM Data of Measure:Word trace screen.

[Example use]   > :DISPlay:WTRace:PRGMdata:ADDRess 0

**:DISPlay:WTRace:PRGMdata:ADDRess?**

[Parameter]    None

[Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>

The same as :DISPlay:WTRace:PRGMdata:ADDRess.

[Function]    Queries the setting status of the display start address.

[Screen]      PRGM Data of Measure:Word trace screen.

[Example use]   > :DISPlay:WTRace:PRGMdata:ADDRess?  
< 0

## SECTION 6 REMOTE COMMANDS

### :DISPlay:WTRace:PRGMdata:SCRoll <scroll>

- [Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
BPAGE : Scrolls program pattern one page up.   
NPAGE : Scrolls program pattern one page down.   
UMOV : Scrolls program pattern one line up.   
DMOV : Scrolls program pattern one line down. 
- [Function] Sets the display position of a character pattern.
- [Screen] PRGM Data of Measure:Word trace screen.
- [Example use] > :DISPlay:WTRace:PRGMdata:SCRoll BPAGE

### :DISPlay:WTRace:ASINs:MORE

- [Parameter] None
- [Function] Sets the Alarm/Signal Ins. screen to scroll one page to a next new page.
- [Screen] Alarm/Signal Ins. of Measure:Word trace screen.
- [Restriction] The command may be unavailable depending on the interface unit to be used.  
MU643000A : Available  
MU643000B/K : Available  
MU643000C : Unavailable (execution error)
- [Example use] > :DISPlay:WTRace:ASINs:MORE

### :DISPlay:WTRace:ASINs:MORE?

- [Parameter] None
- [Response] <more>=<CHARACTER RESPONSE DATA>  
PAGE1 : Alarm/Signal Ins. screen (1)  
PAGE2 : Alarm/Signal Ins. screen (2)
- [Function] Queries the Alarm/Signal Ins. Screen currently displayed.
- [Screen] Alarm/Signal Ins. of Measure:Word trace screen.
- [Restriction] :The same as :DISPlay:WTRace:ASINs:MORE.  
If the unavailable command is executed, no response data occurs and the execution error is returned.
- [Example use] > :DISPlay:WTRace:ASINs:MORE?  
< PAGE1

### :DISPlay:ANALysis[:NAME] <analysis>

- [Parameter] <analysis>=<CHARACTER PROGRAM DATA>  
AELogging :Analyze:Error/Alarm(Logging)screen  
AEHistogram :Analyze:Error/Alarm(Histogram)screen
- [Function] Selects an extended display screen in the Analyze:Error/Alarm screen.
- [Screen] Analyze:Error/Alarm screen
- [Example use] > :DISPlay:ANALysis AELogging

**:DISPlay:ANALysis[:NAME]?**

[Parameter] None  
[Response] <analysis>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:ANALysis[:NAME].  
[Function] Queries an extended display screen in the Analyze:Error/Alarm screen.  
[Screen] Analyze:Error/Alarm screen  
[Example use] > :DISPlay:ANALysis?  
< AEL

**:DISPlay:ANALysis:EALogging:SCRoll <scroll>**

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
TPAGe :Moves to the first position of log data. ....   
LPAGe :Moves to the last position of log data. ....   
BPAGe :Scrolls log data a half screen up. ....   
NPAGe :Scrolls log data a half screen down. ....   
UMOVe :Scrolls log data one line up. ....   
DMOVe :Scrolls log data one line down. ....   
[Function] Sets the display position of log data.  
[Screen] Logging of Analyze:Error/Alarm screen.  
[Example use] > :DISPlay:ANALysis:EALogging:SCRoll BPAGe

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:EAHistogram:ALARm1 <alarm>

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item (Alarm1).

[Screen] Histogram of Analyze:Error/Alarm screen.

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or opt-02) is not installed ,can not use  
DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm1 ALL

### :DISPlay:ANALysis:EAHistogram:ALARm1?

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as: DISPlay:ANALysis:EAHistogram:ALARm1.

[Function] Queries the setting status of a display alarm item (Alarm1).

[Screen] Histogram of Analyze:Error/Alarm screen

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm1?  
< ALL

**:DISPlay:ANALysis:EAHistogram:ALARm2 <alarm>**

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item(Alarm2).

[Screen] Histogram of Analyze:Error/Alarm screen

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or opt-02) is not installed ,can not use  
DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm2 ALL

**:DISPlay:ANALysis:EAHistogram:ALARm2?**

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:EAHistogram:ALARm2.

[Function] Queries the setting status of a display alarm item (Alarm2).

[Screen] Histogram of Analyze:Error/Alarm screen.

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm2?

< ALL

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:EAHistogram:ALARm3 <alarm>

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item (Alarm3).

[Screen] Histogram of Analyze:Error/Alarm screen.

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or opt-02) is not installed ,can not use  
DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm3 ALL

### :DISPlay:ANALysis:EAHistogram:ALARm3?

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:EAHistogram:ALARm3.

[Function] Queries the setting status of a display alarm item (Alarm3).

[Screen] Histogram of Analyze:Error/Alarm screen.

[Example use] > :DISPlay:ANALysis:EAHistogram:ALARm3?  
< ALL

**:DISPlay:ANALysis:EAHistogram:UNIT <unit>**

[Parameter] <unit>=<CHARACTER PROGRAM DATA>  
                  COUNT :Count  
                  RATE :Rate  
[Function] Sets the error display format.  
[Screen] Histogram of Analyze:Error/Alarm screen .  
[Example use] > :DISPlay:ANALysis:EAHistogram:UNIT COUNT

**:DISPlay:ANALysis:EAHistogram:UNIT?**

[Parameter] None  
[Response] <unit>=<CHARACTER RESPONSE DATA>  
                  The same as :DISPlay:ANALysis:EAHistogram:UNIT.  
[Function] Queries the setting status of the error display format.  
[Screen] Histogram of Analyze:Error/Alarm screen.  
[Example use] > :DISPlay:ANALysis:EAHistogram:UNIT?  
                  < COUN

**:DISPlay:ANALysis:EAHistogram:MDISplay <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
                  OFF or 0 :Off  
                  ON or 1 :On  
[Function] Sets the On/Off of marker display.  
[Screen] Histogram:Marker of Analyze:Error/Alarm screen.  
[Example use] > :DISPlay:ANALysis:EAHistogram:MDISplay ON

**:DISPlay:ANALysis:EAHistogram:MDISplay?**

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as: DISPlay:ANALysis:EAHistogram:MDISplay.  
[Function] Queries the On/Off setting status of marker display .  
[Screen] Histogram:Marker of Analyze:Error/Alarm screen.  
[Example use] > :DISPlay:ANALysis:EAHistogram:MDISplay?  
                  < 1

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:EAHistogram:SEARch <search>

- [Parameter] <search>=<CHARACTER PROGRAM DATA>  
              BSEarch :Search <  
              FSEarch :Search >
- [Function] Sets the forward direction/backward direction search at the point where an error/alarm occurs.
- [Screen] Histogram:Search of Analyze:Error/Alarm screen.
- [Example use] > :DISPlay:ANALysis:EAHistogram:SEARch FSEarch

### :DISPlay:ANALysis:EAHistogram:GSTime

<year>,<month>,<day>,<hour>,<minute>,<second>

- [Parameter] <year>,<month>,<day>,<hour>,<minute>,<second>=  
              <DECIMAL NUMERIC PROGRAM DATA>  
              1997 to 2096 (step 1)   :<year>  
              1 to 12 (step 1)       :<month>  
              1 to 31 (step 1)       :<day>  
              0 to 23 (step 1)       :<hour>  
              0 to 59 (step 1)       :<minute>  
              0 to 59 (step 1)       :<second>
- [Function] Sets the display start time.
- [Screen] Histogram of Analyze:Error/Alarm screen.
- [Example use] When the display start time is 12:30:00 on 10/3/98:  
> :DISPlay:ANALysis:EAHistogram:GSTime 1998,10,3,12,30,0

### :DISPlay:ANALysis:EAHistogram:GSTime?

- [Parameter] None
- [Response] <year>,<month>,<day>,<hour>,<minute>,<second>=  
              <NR1 NUMERIC RESPONSE DATA>  
              The same as :DISPlay:ANALysis:EAHistogram:GSTime.  
              However, it returns 9999,99,99,99,99,99 when no data exists.
- [Function] Queries the setting status of the display start time.
- [Screen] Histogram of Analyze:Error/Alarm
- [Example use] When the display start time is 12:30:00 on 10/3/98:  
> :DISPlay:ANALysis:EAHistogram:GSTime?  
< 1998,10,3,12,30,0

**:DISPlay:ANALysis:EAHistogram:INTerval <interval>**

[Parameter] <interval>=<CHARACTER PROGRAM DATA>  
 SEC1 :1s  
 MIN1 :1min  
 MIN15 :15min  
 MIN60 :60min

[Function] Sets an interval at time axis in graph data.

[Screen] Histogram of Analyze:Error/Alarm

[Example use] > :DISPlay:ANALysis:EAHistogram:INTerval SEC1

**:DISPlay:ANALysis:EAHistogram:INTerval?**

[Parameter] None  
 [Response] <interval>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:EAHistogram:INTerval.

[Function] Queries the setting status of the time axis interval in graph data.

[Screen] Histogram of Analyze:Error/Alarm

[Example use] > :DISPlay:ANALysis:EAHistogram:INTerval?  
 < SEC1

**:DISPlay:ANALysis:EAHistogram:SCRoll <scroll>**

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
 TPAGE :Moves to the measurement start point in graph. ....   
 LPAGE :Moves to the measurement stop point in graph. ....   
 BPAGE :Scrolls graph a half screen left. ....   
 NPAGE :Scrolls graph a half screen right. ....   
 LSCRoll :Scrolls graph one line left. ....   
 RSCRoll :Scrolls graph one line right. ....   
 LMOVE :Moves a marker left. ....   
 RMOVE :Moves a marker right. .... 

[Function] Sets the display position of a graph.

[Screen] Histogram of Analyze:Error/Alarm screen.

[Example use] > :DISPlay:ANALysis:EAHistogram:SCRoll BPAGE

**:DISPlay:ANALysis:TDAData:DMODE1 <display>**

[Parameter] <display>=<CHARACTER PROGRAM DATA>  
 HEX :Hex  
 BIN :Bin

[Function] Sets the edit mode.

[Screen] Display Mode1 of Analyze:Trace data screen.

[Example use] > :DISPlay:ANALysis:TDAData:DMODE1 HEX

## SECTION 6 REMOTE COMMANDS

### **:DISPlay:ANALysis:TDATa:DMODe1?**

[Parameter] None  
[Response] <display>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:ANALysis:TDATa:DISPlay.  
[Function] Queries the setting status of the edit mode.  
[Screen] Display Mode1 of Analyze:Trace data screen  
[Example use] > :DISPlay:ANALysis:TDATa:DMODe1?  
< HEX

### **:DISPlay:ANALysis:TDATa:DMODe2 <code>**

[Parameter] <code>=<CHARACTER PROGRAM DATA>  
OFF :Off  
ASCii :ASCII  
EDIC :EBCDIC  
EDIK :EBCDIK  
JIS8 :JIS8  
EBCD :EBCD  
BAUDot :Baudot  
[Function] Sets a display character code.  
[Screen] Display Mode2 of Analyze:Trace data screen.  
[Example use] > :DISPlay:ANALysis:TDATa:DMODe2 ASCii

### **:DISPlay:ANALysis:TDATa:DMODe2?**

[Parameter] None  
[Response] <code>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:ANALysis:TDATa:CODE.  
[Function] Queries the setting status of a display character code.  
[Screen] Display Mode2 of Analyze:Trace data screen.  
[Example use] > :DISPlay:ANALysis:TDATa:DMODe2?  
< ASC

**:DISPlay:ANALysis:TDAr:BOUNdary <boundary>**

- [Parameter] <boundary>=<STRING PROGRAM DATA>  
     "BIT4" :4bit  
     "BIT5" :5bit  
     "BIT6" :6bit  
     "BIT7" :7bit  
     "BIT8" :8bit
- [Function] Sets the number of bits to be used.  
 [Screen] Boundary of Analyze:Trace data screen.  
 [Example use] > :DISPlay:ANALysis:TDAr:BOUNdary "BIT5"

**:DISPlay:ANALysis:TDAr:BOUNdary?**

- [Parameter] None  
 [Response] <boundary>=<STRING RESPONSE DATA>  
     The same as :DISPlay:ANALysis:TDAr:BOUNdary.
- [Function] Queries the setting status of the number of bits being used.  
 [Screen] Boundary of Analyze:Trace data  
 [Example use] > :DISPlay:ANALysis:TDAr:BOUNdary?  
           < "BIT5"

**:DISPlay:ANALysis:TDAr:INVert <boolean>**

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On
- [Function] Sets the On/Off of logic inversion.  
 [Screen] Invert of Analyze:Trace data screen.  
 [Example use] > :DISPlay:ANALysis:TDAr:INVert 1

**:DISPlay:ANALysis:TDAr:INVert?**

- [Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :DISPlay:ANALysis:TDAr:INVert.
- [Function] Queries the setting status of logic inversion.  
 [Screen] Invert of Analyze:Trace data screen.  
 [Example use] > :DISPlay:ANALysis:TDAr:INVert?  
           < 1

## SECTION 6 REMOTE COMMANDS

### **:DISPlay:ANALysis:TDAData:REVerse <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of MSB/LSB reverse.

[Screen] Reverse of Analyze:Trace data screen.

[Example use] > :DISPlay:ANALysis:TDAData:REVerse 1

### **:DISPlay:ANALysis:TDAData:REVerse?**

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :DISPlay:ANALysis:TDAData:REVerse.  
[Function] Queries the setting status of MSB/LSB reverse.  
[Screen] Reverse of Analyze:Trace data  
[Example use] > :DISPlay:ANALysis:TDAData:REVerse?  
< 1

### **:DISPlay:ANALysis:TDAData:SHIFt <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 7 (step 1)  
[Function] Sets bit shift in bytes.  
[Screen] Shift of Analyze:Trace data screen.  
[Example use] > :DISPlay:ANALysis:TDAData:SHIFt 0

### **:DISPlay:ANALysis:TDAData:SHIFt?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :DISPlay:ANALysis:TDAData:SHIFt.  
[Function] Queries the setting status of bit shift in bytes.  
[Screen] Shift of Analyze:Trace data  
[Example use] > :DISPlay:ANALysis:TDAData:SHIFt?  
< 0

**:DISPlay:ANALysis:TDAr*t*a:ADDRes*s* <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   0 to 262143 (step 1)

[Function] Sets the display start address.

[Screen] Analyze:Trace data screen

[Example use] > :DISPlay:ANALysis:TDAr*t*a:ADDRes*s* 0

**:DISPlay:ANALysis:TDAr*t*a:ADDRes*s*?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:TDAr*t*a:ADDRes*s*.

[Function] Queries the setting status of the display start address.

[Screen] Analyze:Trace data screen

[Example use] > :DISPlay:ANALysis:TDAr*t*a:ADDRes*s*?  
                   <0

**:DISPlay:ANALysis:TDAr*t*a:SCRoll <scroll>**

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>  
                   BPAGe   :Scrolls trace data one page up. ....   
                   NPAGe   :Scrolls trace data one page down. ....   
                   UMOVe   :Scrolls trace data one line up. ....   
                   DMOVe   :Scrolls trace data one line down. .... 

[Function] Sets the display position of trace data.

[Screen] Analyze:Trace data screen

[Example use] > :DISPlay:ANALysis:TDAr*t*a:SCRoll BPAGe

**:DISPlay:ANALysis:TDAr*t*a:TSEarch**

[Parameter] None

[Function] Sets stop trigger search for trace data.

[Screen] Trigger search of Analyze:Trace data screen.

[Example use] > :DISPlay:ANALysis:TDAr*t*a:TSEarch

**:DISPlay:ANALysis:TDAr*t*a:SSEarch**

[Parameter] None

[Function] Sets stop position search for trace data.

[Screen] Stop search of Analyze:Trace data screen.

[Example use] > :DISPlay:ANALysis:TDAr*t*a:SSEarch

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:PMONitor:SCRoll <scroll>

- [Parameter] <scroll>=<CHARACTER PROGRAM DATA>
- |       |   |  |
|-------|---|--|
| TPAGE | :Moves to the first position of protocol monitor data. .... |  |
| LPAGE | :Moves to the last position of protocol monitor data. ....  |  |
| BPAGE | :Scrolls protocol monitor data a half screen up. ....       |  |
| NPAGE | :Scrolls protocol monitor data a half screen down. ....     |  |
| UMOVE | :Scrolls protocol monitor data one line up. ....            |  |
| DMOVE | :Scrolls protocol monitor data one line down. ....          |  |
- [Function] Sets the display position of protocol monitor data.
- [Screen] Analyze:Protocol monitor screen.
- [Restriction] If no data exists or the protocol monitor option (opt-22) is not uninstalled, the execution error is returned.
- [Example use] > :DISPlay:ANALysis:PMONitor:SCRoll BPAGE

### :DISPlay:ANALysis:RECall:NAME?

- [Parameter] None
- [Response] <ranalysis>=<STRING PROGRAM DATA>
- "Recall data name".
- However, it returns "No Data" when no Recall data exists.
- It returns " " when no Recall data name exists.
- [Function] Queries the name of recall data.
- [Screen] Analyze:Recall screen
- [Example use] > :DISPlay:ANALysis:RECall:NAME?  
< "ISDN Error Test"

### :DISPlay:ANALysis:RECall:TYPE?

- [Parameter] None
- [Response] <rtype>=<STRING RESPONSE DATA>
- |        |              |
|--------|--------------|
| "EAL"  | :E/A Logging |
| "EAH"  | :E/A Histgrm |
| "TDAT" | :Trace data  |
- However, it returns "No Data" when no data exists.
- [Function] Queries the type of recall data.
- [Screen] Analyze:Recall screen
- [Example use] > :DISPlay:ANALysis:RECall:TYPE?  
< "EAL"

## 6.5 DISPlay Sub-system

### :DISPlay:ANALysis:RECall:EALogging:SCRoll <scroll>

[Parameter] <scroll>=<CHARACTER PROGRAM DATA>

TPAGe	:Moves to the first position of log data (Recall). . . . .	
LPAGe	:Moves to the last position of log data (Recall). . . . .	
BPAGe	:Scrolls log data (Recall) a half screen up. . . . .	
NPAGe	:Scrolls log data (Recall) a half screen down. . . . .	
UMOVe	:Scrolls log data (Recall) one line up. . . . .	
DMOVe	:Scrolls log data (Recall) one line down. . . . .	

[Function] Sets the display position of log data (Recall).

[Screen] E/A Logging of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

[Example use] > :DISPlay:ANALysis:RECall:EALogging:SCRoll BPAGe

## SECTION 6 REMOTE COMMANDS

**:DISPlay:ANALysis:RECall:EAHistogram:ALARm1 <alarm>**

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item (Recall, Alarm1).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or Opt-02) is not installed, can not use DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm1 ALL

**:DISPlay:ANALysis:RECall:EAHistogram:ALARm1?**

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:RECall:EAHistogram:ALARm1.

However, if no data exists, it returns "No Data" with <alarm>=<STRING RESPONSE DATA>.

[Function] Queries the setting status of a display alarm item (Recall, Alarm1).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm1?

< ALL

## 6.5 DISPlay Sub-system

### :DISPlay:ANALysis:RECall:EAHistogram:ALARm2 <alarm>

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item (Recall, Alarm2).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or Opt-02) is not installed, can not use  
DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm2 ALL

### :DISPlay:ANALysis:RECall:EAHistogram:ALARm2?

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:RECall:EAHistogram:ALARm2.

However, if no data exists, it returns "No Data" with <alarm>= <STRING RESPONSE DATA>.

[Function] Queries the setting status of a display alarm item (Recall, Alarm2).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm2?  
< ALL

## SECTION 6 REMOTE COMMANDS

**:DISPlay:ANALysis:RECall:EAHistogram:ALARm3 <alarm>**

[Parameter] <alarm>=<CHARACTER PROGRAM DATA>

OFF	:Off	AIS	:AIS
ALL	:All	SA	:SA
PF	:P-fail	XL	:XL
PSL	:PSL	XA	:XA
OPD	:OPD	RAI	:RAI
FLGL	:FLGL	DISC	:Discon.
ALL0	:ALL0	MFULL	:M-Full
ALL1	:ALL1	SLOF	:ST LOF
LOS	:LOS	HAIS	:HGAIS
LOF	:LOF	BAIS	:BAIS
MLOS	:MF Loss		

[Function] Sets a display alarm item (Recall, Alarm3).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available.

MU643000B/K : All parameters are available.

MU643000C : SA, SLOF, HAIS, and BAIS are unavailable.

Also, if the call control option (opt-01 or Opt-02) is not installed, can not use  
DISC parameter. (execution error)

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm3 ALL

**:DISPlay:ANALysis:RECall:EAHistogram:ALARm3?**

[Parameter] None

[Response] <alarm>=<CHARACTER RESPONSE DATA>

The same as :DISPlay:ANALysis:RECall:EAHistogram:ALARm3.

However, if no data exists, it returns "No Data" with <alarm>=<STRING RESPONSE DATA>.

[Function] Queries the setting status of a display alarm item (Recall, Alarm3).

[Screen] E/A Histgrm of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:EAHistogram:ALARm3?

< ALL

**:DISPlay:ANALysis:RECall:EAHistogram:UNIT <unit>**

[Parameter]      <unit>=<CHARACTER PROGRAM DATA>  
                   COUNT :Count  
                   RATE :Rate

[Function]       Sets the error display format (Recall).

[Screen]          E/A Histgrm of Analyze:Recall screen.

[Restriction]     If no data exists, it is regarded as an execution error.

[Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:UNIT COUNT

**:DISPlay:ANALysis:RECall:EAHistogram:UNIT?**

[Parameter]       None

[Response]       <unit>=<CHARACTER RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:EAHistogram:UNIT.  
                   However, if no data exists, it returns "No Data" with <unit>=<STRING RESPONSE DATA>.

[Function]       Queries the setting status of the error display format (Recall).

[Screen]          E/A Histgrm of Analyze:Recall screen.

[Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:UNIT?  
                   < COUN

**:DISPlay:ANALysis:RECall:EAHistogram:MDISplay <boolean>**

[Parameter]       <boolean>=<BOOLEAN PROGRAM DATA>  
                   OFF or 0 :Off  
                   ON or 1 :On

[Function]       Sets the On/Off (Recall) of marker display.

[Screen]          E/A Histgrm:Marker of Analyze:Recall screen.

[Restriction]     If no data exists, it is regarded as an execution error.

[Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:MDISplay ON

**:DISPlay:ANALysis:RECall:EAHistogram:MDISplay?**

[Parameter]       None

[Response]       <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:RECall:EAHistogram:MDISplay.  
                   However, if no data exists, it returns "No Data" with <boolean>=<STRING RESPONSE DATA>.

[Function]       Queries the setting status of On/Off (Recall) of marker display.

[Screen]          E/A Histgrm:Marker of Analyze:Recall screen.

[Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:MDISplay?  
                   < 1

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:RECall:EAHistogram:SEARch <search>

- [Parameter]    <search>=<CHARACTER PROGRAM DATA>  
                    BSEarch :Search <  
                    FSEarch :Search >
- [Function]    Sets the forward direction/backward direction search (Recall) at the point where an error/alarm occurs.
- [Screen]      E/A Histgrm:Search of Analyze:Recall screen.
- [Restriction] If no data exists, it is regarded as a run error.
- [Example use] > :DISPlay:ANALysis:RECall:EAHistogram:SEARch FSEarch

### :DISPlay:ANALysis:RECall:EAHistogram:GSTime

                    <year>,<month>,<day>,<hour>,<minute>,<second>

- [Parameter]    <year>,<month>,<day>,<hour>,<minute>,<second>=  
                    <DECIMAL NUMERIC PROGRAM DATA>  
                    1997 to 2096 (step 1)    :<year>  
                    1 to 12 (step 1)        :<month>  
                    1 to 31 (step1)        :<day>  
                    0 to 23 (step1)        :<hour>  
                    0 to 59 (step 1)        :<minute>  
                    0 to 59 (step 1)        :<second>
- [Function]    Sets the display start time (Recall).
- [Screen]      E/A Histgrm of Analyze:Recall screen.
- [Restriction] If no data exists, it is regarded as an execution error.
- [Example use] When the display start time is 12:30:00 on 10/3/98:  
> :DISPlay:ANALysis:RECall:EAHistogram:GSTime 1998,10,3,12,30,0

### :DISPlay:ANALysis:RECall:EAHistogram:GSTime?

- [Parameter]    None
- [Response]     <year>,<month>,<day>,<hour>,<minute>,<second>=  
                    <NR1 NUMERIC RESPONSE DATA>  
                    The same as :DISPlay:ANALysis:RECall:EAHistogram:GSTime.  
                    However, it returns 9999,99,99,99,99,99 when no data exists.
- [Function]    Queries the setting status of the display start time (Recall).
- [Screen]      E/A Histgrm of Analyze:Recall screen.
- [Example use] When the display start time is 12:30:00 on 10/3/98:  
> :DISPlay:ANALysis:RECall:EAHistogram:GSTime?  
< 1998,10,3,12,30,0

**:DISPlay:ANALysis:RECall:EAHistogram:INTerval <interval>**

- [Parameter]      <interval>=<CHARACTER PROGRAM DATA>  
                   SEC1    :1s  
                   MIN1   :1min  
                   MIN15   :15min  
                   MIN60   :60min
- [Function]       Sets the interval (Recall) at time axis in graph data.  
 [Screen]          E/A Histgrm of Analyze:Recall screen.  
 [Restriction]     If no data exists, it is regarded as an execution error.  
 [Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:INTerval SEC1

**:DISPlay:ANALysis:RECall:EAHistogram:INTerval?**

- [Parameter]       None  
 [Response]       <interval>=<CHARACTER RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:RECall:EAHistogram:INTerval.  
                   However, if no data exists, it returns "No Data" with <interval>=<STRING RESPONSE DATA>.
- [Function]       Queries the setting status of the time axis interval (Recall) in graph data.  
 [Screen]          E/A Histgrm of Analyze:Recall screen.  
 [Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:INTerval?  
                   < SEC1

**:DISPlay:ANALysis:RECall:EAHistogram:SCRoll <scroll>**

- [Parameter]       <scroll>=<CHARACTER PROGRAM DATA>  
                   TPAGe   :Moves to the measurement start point in graph. ....   
                   LPAGe   :Moves to the measurement stop point in graph. ....   
                   BPAGe   :Scrolls graph a half screen left. ....   
                   NPAGe   :Scrolls graph a half screen right. ....   
                   LMOVE   :Moves a marker left. ....   
                   RMOVE   :Moves a marker right. .... 
- [Function]       Sets the display position of graph (Recall).  
 [Screen]          E/A Histgrm of Analyze:Recallscreen.  
 [Restriction]     If no data exists, it is regarded as an execution error.  
 [Example use]    > :DISPlay:ANALysis:RECall:EAHistogram:SCRoll BPAGE

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:RECall:TDArTa:DMODe1 <display>

- [Parameter] <display>=<CHARACTER PROGRAM DATA>  
HEX :Hex  
BIN :Bin
- [Function] Sets the display mode (Recall).
- [Screen] Trace data:Display Mode1 of Analyze:Recall screen.
- [Restriction] If no data exists, it is regarded as an execution error.
- [Example use] > :DISPlay:ANALysis:RECall:TDArTa:DMODe1 HEX

### :DISPlay:ANALysis:RECall:TDArTa:DMODe1?

- [Parameter] None
- [Response] <display>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:ANALysis:RECall:TDArTa:DISPlay.  
However, if no data exists, it returns "No Data" with <display>=<STRING RESPONSE DATA>.
- [Function] Queries the setting status of the display mode (Recall).
- [Screen] Trace data:Display Mode1 of Analyze:Recall screen .
- [Example use] > :DISPlay:ANALysis:RECall:TDArTa:DMODe1?  
< HEX

### :DISPlay:ANALysis:RECall:TDArTa:DMODe2 <code>

- [Parameter] <code>=<CHARACTER PROGRAM DATA>  
OFF :Off  
ASCii :ASCII  
EDIC :EBCDIC  
EDIK :EBCDIK  
JIS8 :JIS8  
EBCD :EBCD  
BAUDot :Baudot
- [Function] Sets a display character code
- [Screen] Trace data:Display Mode2 of Analyze:Recall screen.
- [Restriction] If no data exists, it is regarded as an execution error.
- [Example use] > :DISPlay:ANALysis:RECall:TDArTa:DMODe2 ASCii

**:DISPlay:ANALysis:RECall:TDAr:DMODe2?**

[Parameter] None

[Response] <code>=<CHARACTER RESPONSE DATA>  
The same as :DISPlay:ANALysis:RECall:TDAr:CODE.  
However, if no data exists, it returns "No Data" with <code>=<STRING RESPONSE DATA>.

[Function] Queries the setting status of a display character code (Recall).

[Screen] Trace data:Display Mode2 of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:TDAr:DMODe2?  
< ASC

**:DISPlay:ANALysis:RECall:TDAr:BOUNdary <boundary>**

[Parameter] <boundary>=<STRING PROGRAM DATA>  
"BIT4" :4bit  
"BIT5" :5bit  
"BIT6" :6bit  
"BIT7" :7bit  
"BIT8" :8bit

[Function] Sets the number of bits to be used.

[Screen] Trace data:Boundary of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

[Example use] > :DISPlay:ANALysis:RECall:TDAr:BOUNdary "BIT5"

**:DISPlay:ANALysis:RECall:TDAr:BOUNdary?**

[Parameter] None

[Response] <boundary>=<STRING RESPONSE DATA>  
The same as :DISPlay:ANALysis:RECall:TDAr:BOUNdary.  
However, if no data exists, it returns "No Data".

[Function] Queries the setting status of the number of bits being used (Recall).

[Screen] Trace data:Boundary of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:TDAr:BOUNdary?  
< "BIT5"

## SECTION 6 REMOTE COMMANDS

### :DISPlay:ANALysis:RECall:TDTA:INVert <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of logic inversion(Recall).

[Screen] Trace data:Invert of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

[Example use] > :DISPlay:ANALysis:RECall:TDTA:INVert 1

### :DISPlay:ANALysis:RECall:TDTA:INVert?

[Parameter] None

[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :DISPlay:ANALysis:RECall:TDTA:INVert.  
However, if no data exists, it returns "No Data" with  
<boolean>=<STRING RESPONSE DATA>.

[Function] Queries the setting status of logic inversion (Recall).

[Screen] Trace data:Invert of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:TDTA:INVert?  
< 1

### :DISPlay:ANALysis:RECall:TDTA:REVerse <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On

[Function] Sets the On/Off of MSB/LSB reverse (Recall).

[Screen] Trace data:Reverse of Analyze:Recall screen.

[Restriction] If no data exists, it is regarded as an execution error.

[Example use] > :DISPlay:ANALysis:RECall:TDTA:REVerse 1

### :DISPlay:ANALysis:RECall:TDTA:REVerse?

[Parameter] None

[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :DISPlay:ANALysis:RECall:TDTA:REVerse.  
However, if no data exists, it returns "No Data" with <boolean>=<STRING RESPONSE DATA>.

[Function] Queries the On/Off setting status of MSB/LSB reverse (Recall).

[Screen] Trace data:Invert of Analyze:Recall screen.

[Example use] > :DISPlay:ANALysis:RECall:TDTA:REVerse?  
< 1

**:DISPlay:ANALysis:RECall:TDAr:SHIFt <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   0 to 7 (step 1)

[Function]       Sets bit shift in bytes (Recall).

[Screen]       Trace data:Shift of Analyze:Recall screen.

[Restriction]   If no data exists, it is regarded as an execution error.

[Example use]    > :DISPlay:ANALysis:RECall:TDAr:SHIFt 0

**:DISPlay:ANALysis:RECall:TDAr:SHIFt?**

[Parameter]      None

[Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:RECall:TDAr:SHIFt.  
                   However, if no data exists, it returns "No Data" with <numeric>=<STRING RESPONSE DATA>.

[Function]       Queries the setting status of bit shift in bytes (Recall).

[Screen]       Trace data:Shift of Analyze:Recall screen.

[Example use]    > :DISPlay:ANALysis:RECall:TDAr:SHIFt?  
                   < 0

**:DISPlay:ANALysis:RECall:TDAr:ADDRess <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                   0 to 262143 (step 1)

[Function]       Sets the display start address (Recall).

[Screen]       Trace data of Analyze:Recall screen.

[Restriction]   If no data exists, it is regarded as an execution error.

[Example use]    > :DISPlay:ANALysis:RECall:TDAr:ADDRess 0

**:DISPlay:ANALysis:RECall:TDAr:ADDRess?**

[Parameter]      None

[Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                   The same as :DISPlay:ANALysis:RECall:TDAr:ADDRess.  
                   However, if no data exists, it returns "No Data" with <numeric>=<STRING RESPONSE DATA>.

[Function]       Queries the setting status of the display start address (Recall).

[Screen]       Trace data:Shift of Analyze:Recall screen.

[Example use]    > :DISPlay:ANALysis:RECall:TDAr:ADDRess?  
                   < 0

## SECTION 6 REMOTE COMMANDS

**:DISPLAY:ANALYSIS:RECALL:TDATA:SCROLL <scroll>**

[Parameter]	<scroll>=<CHARACTER PROGRAM DATA>	
	BPAGe : Scrolls trace data one page up.	
	NPAGe : Scrolls trace data one page down.	
	UMOVe : Scrolls trace data one line up.	
	DMOVe : Scrolls trace data one line down.	
[Function]	Sets the display position of trace data (Recall).	
[Screen]	Trace data of Analyze:Recall screen	
[Restriction]	If no data exists, it is regarded as an execution error.	
[Example use]	> :DISPLAY:ANALYSIS:RECALL:TDATA:SCROLL BPAGE	

# :DISPLAY:ANALYSIS:RECALL:TDTA:TSEARCH

[Parameter]	None
[Function]	Sets stop trigger search for trace data (Recall).
[Screen]	Trace data:Trigger search of Analyze:Recall screen.
[Restriction]	If no data exists, it is regarded as an execution error.
[Example use]	> :DISPLAY:ANALYSIS:RECALL:TDATA:TSEARCH

## :DISPlay:ANALysis:RECall:TDATa:SSEarCh

[Parameter]	None
[Function]	Sets stop position search for trace data.
[Screen]	Trace data:Stop search of Analyze:Recall screen.
[Example use]	> :DISPLAY:ANALYSIS:RECALL:TDATA:SSEARCH

:DISPLAY:ANALYSIS:RECALL:PMONITOR:SCROLL <scroll>

[Parameter]	<scroll>=<CHARACTER PROGRAM DATA>
TPAGE	:Moves to the first position of protocol monitor data (Recall). ....
LPAGE	:Moves to the last position of protocol monitor data (Recall). ....
BPAGE	:Scrolls protocol monitor data (Recall). a half screen up. ....
NPAGE	:Scrolls protocol monitor data (Recall). a half screen down. ....
UMOVE	:Scrolls protocol monitor data (Recall) one line up. ....
DMOVE	:Scrolls protocol monitor data (Recall) one line down. ....
Set the display position of protocol monitor data (Recall)	

[Function] Sets the display position of protocol monitor data (Recall).

[Screen] Analyze:Protocol monitor screen.

[Restriction] If no data exists, it is regarded as an execution error.

[Example use] > :DISPlay:ANALysis:PMONitor:SCRoll BPAGE

**:DISPlay:MONitor:SElect**

[Parameter] None  
 [Function] Sets the display of signal line/alarm monitor.  
 [Screen] Signal line/alarm monitor display area  
 [Example use] > :DISPlay:MONitor:SElect

**:DISPlay:MONitor:SElect?**

[Parameter] None  
 [Response] <select>=<CHARACTER RESPONSE DATA>  
     TX       :Tx  
     RX       :Rx  
     TXRX     :Tx&Rx  
 [Function] Queries the setting status of the display of signal line/alarm monitor.  
 [Screen] Signal line/alarm monitor display area  
 [Example use] > :DISPlay:MONitor:SElect?  
           < TX

**:DISPlay:MONitor:HISTory <boolean>**

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
     OFF or 0 :Off  
     ON or 1 :On  
 [Function] Sets the history display of signal line/alarm monitor.  
 [Screen] Signal line/alarm monitor display area  
 [Example use] > :DISPlay:MONitor:HISTory 0

**:DISPlay:MONitor:HISTory?**

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
     The same as :DISPlay:MONitor:HISTory.  
 [Function] Queries the setting status of the history display of signal line/alarm monitor.  
 [Screen] Signal line/alarm monitor display area  
 [Example use] > :DISPlay:MONitor:HISTory?  
           < 0

## SECTION 6 REMOTE COMMANDS

### :DISPlay:SCRoff:STARt

[Parameter] None  
[Function] Sets the screen off function to start.  
[Screen] Area for screen off button.  
[Restriction] This function is ignored and regarded as an execution error, in the middle of screen off.  
[Example use] > :DISPlay:SCRoff:STARt

### :DISPlay:SCRoff:STOP

[Parameter] None  
[Function] Sets the screen off function to stop.  
[Screen] Area for screen off button.  
[Example use] > :DISPlay:SCRoff:STOP

### :DISPlay:SCRoff:STATE?

[Parameter] None  
[Response] <state>=<CHARACTER RESPONSE DATA>  
              SOFF    :Screen off state  
              SON     :Screen on state  
[Function] Queries the state of screen on/off.  
[Screen] None  
[Example use] > :DISPlay:SCRoff:STATE?  
              < SON

## 6.6 CALCulate Sub-System

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### :CALCulate:TELecom:PERFOrmance:TYPE <perform>

[Parameter] <perform>=<CHARACTER PROGRAM DATA>  
 OFF :OFF  
 G821 :G.821  
 G826 :G.826  
 M2100 :M.2100

[Function] Sets performance measurement.

[Screen] Performance of Measure>Error/Alarm:Cond. 2 screen.

[Example use] > :CALCulate:TELecom:PERFOrmance:TYPE G826

### :CALCulate:TELecom:PERFOrmance:TYPE?

[Parameter] None  
 [Response] <perform>=<CHARACTER RESPONSE DATA>  
 The same as :CALCulate:TELecom:PERFOrmance:TYPE.  
 [Function] Queries the type of performance measurement.  
 [Screen] Performance of Measure>Error/Alarm:Cond. 2 screen.  
 [Example use] > :CALCulate:TELecom:PERFOrmance:TYPE?  
 < M2100

### :CALCulate:TELecom:PERFOrmance:TTHResHold:ES:SET <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
 OFF or 0 :Off  
 ON or 1 :On  
 [Function] Sets whether the M. 2100 performance measurement determines the threshold for Tx line (TxES).  
 [Screen] Tx Threshold:ES of Measure>Error/Alarm:Cond. 2 screen.  
 [Example use] > :CALCulate:TELecom:PERFOrmance:TTHResHold:ES:SET ON

### :CALCulate:TELecom:PERFOrmance:TTHResHold:ES:SET?

[Parameter] None  
 [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
 The same as :CALCulate:TELecom:PERFOrmance:TTHResHold:ES:SET.  
 [Function] Queries the setting status of whether the M. 2100 performance measurement determines the threshold for Tx line (TxES).  
 [Screen] Tx Threshold:ES of Measure>Error/Alarm:Cond. 2 screen.  
 [Example use] > :CALCulate:TELecom:PERFOrmance:TTHResHold:ES:SET?  
 < 1

## SECTION 6 REMOTE COMMANDS

### **:CALCulate:TELecom:PERFormance:TTHReshold:ES:S1 <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      0 to 99999 (step 1)  
[Function]        Sets the S1 (lower limit for the threshold) of M. 2100 TxES.  
[Screen]          Tx Threshold:ES:S1 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERFormance:TTHReshold:ES:S1 4

### **:CALCulate:TELecom:PERFormance:TTHReshold:ES:S1?**

[Parameter]      None  
[Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                     The same as :CALCulate:TELecom:PERFormance:TTHReshold:ES:S1.  
[Function]        Queries the S1 (lower limit for the threshold) of M. 2100 TxES.  
[Screen]          Tx Threshold:ES:S1 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERFormance:TTHReshold:ES:S1?  
                     < 4

### **:CALCulate:TELecom:PERFormance:TTHReshold:ES:S2 <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                     0 to 99999 (step 1)  
[Function]        Sets the S2 (upper limit for the threshold) of M. 2100 TxES.  
[Screen]          Tx Threshold:ES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERFormance:TTHReshold:ES:S2 9994

### **:CALCulate:TELecom:PERFormance:TTHReshold:ES:S2?**

[Parameter]      None  
[Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                     The same as :CALCulate:TELecom:PERFormance:TTHReshold:ES:S2.  
[Function]        Queries the S2 (upper limit for the threshold) of M. 2100 TxES.  
[Screen]          Tx Threshold:ES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERFormance:TTHReshold:ES:S2?  
                     < 9994

## 6.6 CALCulate Sub-System

### **:CALCulate:TELecom:PERPerformance:TTHReshold:SES:SET <boolean>**

- [Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                      OFF or 0 :Off  
                      ON or 1 :On
- [Function]        Sets whether the M. 2100 performance measurement determines the threshold for Tx line (TxSES).
- [Screen]           Tx Threshold:SES of Measure:Error/Alarm:Cond. 2 screen.
- [Example use]     > :CALCulate:TELecom:PERPerformance:TTHReshold:SES:SET ON

### **:CALCulate:TELecom:PERPerformance:TTHReshold:SES:SET?**

- [Parameter]       None
- [Response]        <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                     The same as : CALCulate : TELecom : PERformance : TTHReshold : SES : SET.
- [Function]        Queries the setting status of whether the M. 2100 performance measurement determines the threshold for Tx line (TxSES).
- [Screen]           Tx Threshold:SES of Measure:Error/Alarm:Cond. 2 screen.
- [Example use]     > :CALCulate:TELecom:PERPerformance:TTHReshold:SES:SET?  
                     < 1

### **:CALCulate:TELecom:PERPerformance:TTHReshold:SES:S1 <numeric>**

- [Parameter]       <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                     0 to 99999 (step 1)
- [Function]        Sets the S1 (lower limit for the threshold) of M. 2100 TxSES.
- [Screen]           Tx Threshold:SES:S1 of Measure:Error/Alarm:Cond.2 screen.
- [Example use]     > :CALCulate:TELecom:PERformance:TTHReshold:SES:S1 15

### **:CALCulate:TELecom:PERPerformance:TTHReshold:SES:S1?**

- [Parameter]       None
- [Response]        <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                     The same as :CALCulate:TELecom:PERformance:TTHReshold:SES:S1.
- [Function]        Queries the S1 (lower limit for the threshold) of M. 2100 TxSES.
- [Screen]           Tx Threshold:SES:S1 of Measure:Error/Alarm:Cond.2 screen.
- [Example use]     > :CALCulate:TELecom:PERformance:TTHReshold:SES:S1?  
                     < 15

## SECTION 6 REMOTE COMMANDS

### :CALCulate:TELEcom:PERFOrmance:TTHResholt:SES:S2 <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 99999 (step 1)  
[Function] Sets the S2 (upper limit for the threshold) of M. 2100 TxSES.  
[Screen] Tx Threshold:SES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use] > :CALCulate:TELEcom:PERFOrmance:TTHResholt:SES:S2 99999

### :CALCulate:TELEcom:PERFOrmance:TTHResholt:SES:S2?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELEcom:PERFOrmance:TTHResholt:SES:S2.  
[Function] Queries the S2 (upper limit for the threshold) of M. 2100 TxSES.  
[Screen] Tx Threshold:SES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use] > :CALCulate:TELEcom:PERFOrmance:TTHResholt:SES:S2?  
< 99999

### :CALCulate:TELEcom:PERFOrmance:TTHResholt:US:SET <boolean>

[Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On  
[Function] Sets whether the M. 2100 performance measurement determines the threshold for Tx line (TxUS).  
[Screen] Tx Threshold:US of Measure:Error/Alarm:Cond. 2 screen.  
[Example use] > :CALCulate:TELEcom:PERFOrmance:TTHResholt:US:SET ON

### :CALCulate:TELEcom:PERFOrmance:TTHResholt:US:SET?

[Parameter] None  
[Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELEcom:PERFOrmance:TTHResholt:US:SET.  
[Function] Queries the setting status of whether the M. 2100 performance measurement determines the threshold for Tx line (TxUS).  
[Screen] Tx Threshold:US of Measure:Error/Alarm:Cond. 2 screen.  
[Example use] > :CALCulate:TELEcom:PERFOrmance:TTHResholt:US:SET?  
< 1

## 6.6 CALCulate Sub-System

### **:CALCulate:TELEcom:PERformance:TTHResholt:US:S1 <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      0 to 99999 (step 1)  
[Function]         Sets the S1 (lower limit for the threshold) of M. 2100 TxUS.  
[Screen]           Tx Threshold:US:S1 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]      > :CALCulate:TELEcom:PERformance:TTHResholt:US:S1 15

### **:CALCulate:TELEcom:PERformance:TTHResholt:US:S1?**

[Parameter]      None  
[Response]        <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                      The same as :CALCulate:TELEcom:PERformance:TTHResholt:US:S1.  
[Function]         Queries the S1 (lower limit for the threshold) of M. 2100 TxUS.  
[Screen]           Tx Threshold:US:S1 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]      > :CALCulate:TELEcom:PERformance:TTHResholt:US:S1?  
                      < 15

### **:CALCulate:TELEcom:PERformance:TTHResholt:US:S2 <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      0 to 99999 (step 1)  
[Function]         Sets the S2 (upper limit for the threshold) of M. 2100 TxUS.  
[Screen]           Tx Threshold:US:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]      > :CALCulate:TELEcom:PERformance:TTHResholt:US:S2 99999

### **:CALCulate:TELEcom:PERformance:TTHResholt:US:S2?**

[Parameter]      None  
[Response]        <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                      The same as :CALCulate:TELEcom:PERformance:TTHResholt:US:S2.  
[Function]         Queries the S2 (upper limit for the threshold) of M. 2100 TxUS.  
[Screen]           Tx Threshold:US:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]      > :CALCulate:TELEcom:PERformance:TTHResholt:US:S2?  
                      < 99999

## SECTION 6 REMOTE COMMANDS

### :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:SET <boolean>

- [Parameter] <boolean>=<BOOLEAN PROGRAM DATA>  
OFF or 0 :Off  
ON or 1 :On
- [Function] Sets whether the M. 2100 performance measurement determines the threshold for Rx line (RxES).
- [Screen] Rx Threshold:ES of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:SET ON

### :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:SET?

- [Parameter] None
- [Response] <boolean>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:SET.
- [Function] Queries the setting status of whether the M. 2100 performance measurement determines the threshold for Rx line (RxES).
- [Screen] Rx Threshold:ES of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:SET?  
< 1

### :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:S1 <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 99999 (step 1)
- [Function] Sets the S1 (lower limit for the threshold) of M. 2100 RxES.
- [Screen] Rx Threshold:ES:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:S1 4

### :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:S1?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:S1.
- [Function] Queries the S1 (lower limit for the threshold) of M. 2100 RxES.
- [Screen] Rx Threshold:ES:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELEcom:PERFOrmance:RTHResholt:ES:S1?  
< 4

## 6.6 CALCulate Sub-System

### **:CALCulate:TELecom:PERformance:RTHreshold:ES:S2 <numeric>**

[Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      0 to 99999 (step 1)  
[Function]        Sets the S2 (upper limit for the threshold) of M. 2100 RxES.  
[Screen]          Rx Threshold:ES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERformance:RTHreshold:ES:S2 9994

### **:CALCulate:TELecom:PERformance:RTHreshold:ES:S2?**

[Parameter]      None  
[Response]        <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                      The same as :CALCulate:TELecom:PERformance:RTHreshold:ES:S2.  
[Function]        Queries the S2 (upper limit for the threshold) of M. 2100 RxES.  
[Screen]          Rx Threshold:ES:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERformance:RTHreshold:ES:S2?  
                      < 9994

### **:CALCulate:TELecom:PERformance:RTHreshold:SES:SET <boolean>**

[Parameter]      <boolean>=<BOOLEAN PROGRAM DATA>  
                     OFF or 0 :Off  
                     ON or 1 :On  
[Function]        Sets whether whether the M. 2100 performance measurement determines  
                     the threshold for Rx line (RxSES).  
[Screen]          Rx Threshold:SES of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERformance:RTHreshold:SES:SET ON

### **:CALCulate:TELecom:PERformance:RTHreshold:SES:SET?**

[Parameter]      None  
[Response]        <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                     The same as :CALCulate:TELecom:PERformance:RTHreshold:SES:SET.  
[Function]        Queries the setting status of the M. 2100 performance measurement  
                     determines the threshold for Rx line (RxSES).  
[Screen]          Rx Threshold:SES of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]     > :CALCulate:TELecom:PERformance:RTHreshold:SES:SET?  
                     < 1

## SECTION 6 REMOTE COMMANDS

### :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S1 <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 99999 (step 1)
- [Function] Sets the S1 (lower limit for the threshold) of M. 2100 RxSES.
- [Screen] Rx Threshold:SES:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S1 15

### :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S1?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S1.
- [Function] Queries the S1 (lower limit for the threshold) of M. 2100 RxSES.
- [Screen] Rx Threshold:SES:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S1?  
< 15

### :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S2 <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
0 to 99999 (step 1)
- [Function] Sets the S2 (upper limit for the threshold) of M. 2100 RxSES.
- [Screen] Rx Threshold:SES:S2 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S2 99999

### :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S2?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The same as :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S2
- [Function] Queries the S2 (upper limit for the threshold) of M. 2100 RxSES.
- [Screen] Rx Threshold:SES:S2 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELeom:PERFOrmance:RTHResholt:SES:S2?  
< 99999

## 6.6 CALCulate Sub-System

### **:CALCulate:TELecom:PERformance:RTHreshold:US:SET <boolean>**

- [Parameter]    <boolean>=<BOOLEAN PROGRAM DATA>  
                  OFF or 0 :Off  
                  ON or 1 :On
- [Function]    Sets whether the M. 2100 performance measurement determines the threshold for Rx line (RxUS).
- [Screen]      Rx Threshold:US of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELecom:PERformance:RTHreshold:US:SET ON

### **:CALCulate:TELecom:PERformance:RTHreshold:US:SET?**

- [Parameter]    None
- [Response]     <boolean>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :CALCulate:TELecom:PERformance:RTHreshold:US:SET.
- [Function]    Queries the setting status of whether the M. 2100 performance measurement determines the threshold for Rx line (RxUS).
- [Screen]      Rx Threshold:US of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELecom:PERformance:RTHreshold:US:SET?  
                  < 1

### **:CALCulate:TELecom:PERformance:RTHreshold:US:S1 <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  0 to 99999 (step 1)
- [Function]    Sets the S1 (lower limit for the threshold) of M. 2100 RxUS.
- [Screen]      Rx Threshold:US:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELecom:PERformance:RTHreshold:US:S1 15

### **:CALCulate:TELecom:PERformance:RTHreshold:US:S1?**

- [Parameter]    None
- [Response]     <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The same as :CALCulate:TELecom:PERformance:RTHreshold:US:S1.
- [Function]    Queries the S1 (lower limit for the threshold) of M. 2100 RxUS.
- [Screen]      Rx Threshold:US:S1 of Measure:Error/Alarm:Cond. 2 screen.
- [Example use] > :CALCulate:TELecom:PERformance:RTHreshold:US:S1?  
                  < 15

## SECTION 6 REMOTE COMMANDS

### **:CALCulate:TELecom:PERFOrmance:RTHResholt:US:S2 <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                    0 to 99999 (step 1)  
[Function]      Sets the S2 (upper limit for the threshold) of M. 2100 RxUS.  
[Screen]        Rx Threshold:US:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]    > :CALCulate:TELecom:PERFOrmance:RTHResholt:US:S2 99999

### **:CALCulate:TELecom:PERFOrmance:RTHResholt:US:S2?**

- [Parameter]    None  
[Response]     <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                    The same as :CALCulate:TELecom:PERFOrmance:RTHResholt:US:S2.  
[Function]      Queries the S2 (upper limit for the threshold) of M. 2100 RxUS.  
[Screen]        Rx Threshold:US:S2 of Measure:Error/Alarm:Cond. 2 screen.  
[Example use]    > :CALCulate:TELecom:PERFOrmance:RTHResholt:US:S2?  
                    < 99999

### **:CALCulate:DATA? <string>**

- [Parameter]    <string>=<STRING PROGRAM DATA>  
                    "[CURRent:]<result>" :Current measured result  
                    "LAST:<result>"        :Last measured result  
                    For the contents of <result>, refer to Table 6.6-2.  
[Response]     <string>=<STRING RESPONSE DATA>  
                    Refer to Table 6.6-2.  
[Function]      Queries the measured results corresponding to the parameter.  
[Screen]        Each measured result screen of Measure screen.  
[Restriction]    None  
[Example use]    > :CALCulate:DATA? "CURRent:TX:EC"  
                    or  
                    :CALCulate:DATA? "TX:EC"    (CURRent:Can be omitted.)  
                    < " 123456"

## 6.6 CALCulate Sub-System

**Table 6.6-1 Queried measured result**

Item		<result>	Response format
Error/Alarm	Tx Error	Error count	"TX:EC"
		Error rate	"TX:ER"
		ES	"TX:ES"
		EFS	"TX:EFS"
	Tx G.821	G.821 ES	"TX:G821:ES2"
		G.821 EFS	"TX:G821:EFS2"
		G.821 SES	"TX:G821:SES2"
		G.821 US	"TX:G821:US2"
		G.821 DM	"TX:G821:DM2"
		G.821 AT	"TX:G821:AT2"
		G.821 %ES	"TX:G821:ES"
		G.821 AnD%ES	"TX:G821:ES3"
		G.821 %EFS	"TX:G821:EFS"
		G.821 %SES	"TX:G821:SES"
		G.821 %US	"TX:G821:US"
	Tx G.826	G.821 %DM	"TX:G821:DM"
		G.821 %AT	"TX:G821:AT"
		G.826 EB	"TX:G826:EB"
		G.826 ES	"TX:G826:ES"
		G.826 SES	"TX:G826:SES"
		G.826 BBE	"TX:G826:BBE"
		G.826 ESR	"TX:G826:ESR"
		G.826 SESR	"TX:G826:SESR"
	Tx M.2100	G.826 BBER	"TX:G826:BBER"
		G.826 US	"TX:G826:US"
		G.826 AT	"TX:G826:AT"
		M.2100 Tx ES	"TX:M2100:ES"
		M.2100 Tx SES	"TX:M2100:SES"
	Tx HDLC Frame	M.2100 Tx UT	"Tx:M2100:UT"
		M.2100 Tx AT	"Tx:M2100:AT"
		M.2100 Tx TEST	"TX:M2100:TEST"
	Tx HDLC Frame	Bad frame count	"TX:BFC"
		Abort frame count	"TX:AFC"

## SECTION 6 REMOTE COMMANDS

Item		<result>	Response format
Tx Alarm	All alarm	"TX:AA"	Form1
	Power fail	"TX:PF"	Form1
	OPD	"TX:OPD"	Form1
	FLGL	"TX:FLGL"	Form1
	ALL0	"TX:ALL0"	Form1
	ALL1	"TX:ALL1"	Form1
	LOS	"TX:LOS"	Form1
	LOF	"TX:LOF"	Form1
	MF Loss	"TX:MLOSSs"	Form1
	AIS	"TX:AIS"	Form1
	SA	"TX:SA"	Form1
	XL	"TX:XL"	Form1
	XA	"TX:XA"	Form1
	RAI	"TX:RAI"	Form1
	ST LOF	"TX:SLOF"	Form1
	HGAIS	"TX:HAIS"	Form1
	BAIS	"TX:BAIS"	Form1
Rx Error	Error count	"RX:EC"	Form1
	Error rate	"RX:ER"	Form2
	Block error count	"RX:BEC"	Form1
	Block error rate	"RX:BER"	Form2
	ES	"RX:ES"	Form1
	EFS	"RX:EFS"	Form1
	Clock slip count	"RX:CSC"	Form1
	Clock slip second	"RX:CSS"	Form1
	Character error count	"RX:CEC"	Form1
	PSL Count	"RX:PC"	Form1
Rx G.821	G.821 ES	"RX:G821:ES2"	Form1
	G.821 EFS	"RX:G821:EFS2"	Form1
	G.821 SES	"RX:G821:SES2"	Form1
	G.821 US	"RX:G821:US2"	Form1
	G.821 DM	"RX:G821:DM2"	Form1
	G.821 AT	"RX:G821:AT2"	Form1
	G.821 %ES	"RX:G821:ES"	Form3
	G.821 AnD%ES	"RX:G821:ES3"	Form3
	G.821 %EFS	"RX:G821:EFS"	Form3
	G.821 %SES	"RX:G821:SES"	Form3
	G.821 %US	"RX:G821:US"	Form3
	G.821 %DM	"RX:G821:DM"	Form3
	G.821 %AT	"RX:G821:AT"	Form3

## 6.6 CALCulate Sub-System

Item		<result>	Response format
Rx G.826	G.826 EB	"RX:G826:EB"	Form1
	G.826 ES	"RX:G826:ES"	Form1
	G.826 SES	"RX:G826:SES"	Form1
	G.826 BBE	"RX:G826:BBE"	Form1
	G.826 ESR	"RX:G826:ESR"	Form2
	G.826 SESR	"RX:G826:SESR"	Form2
	G.826 BBER	"RX:G826:BBER"	Form2
	G.826 US	"RX:G826:US"	Form1
	G.826 AT	"RX:G826:AT"	Form1
Rx M.2100	M.2100 Rx ES	"RX:M2100:ES"	Form1
	M.2100 Rx SES	"RX:M2100:SES"	Form1
	M.2100 Rx US	"RX:M2100:US"	Form1
	M.2100 Rx AT	"RX:M2100:AT"	Form1
	M.2100 Rx TEST	"RX:M2100:TEST"	Form4
Rx HDLC Frame	Bad frame count	"RX:BFC"	Form1
	Abort frame count	"RX:AFC"	Form1
Rx Alarm	All alarm	"RX:AA"	Form1
	Power fail	"RX:PF"	Form1
	PSL	"RX:PSL"	Form1
	OPD	"RX:OPD"	Form1
	FLGL	"RX:FLGL"	Form1
	ALL0	"RX:ALL0"	Form1
	ALL1	"RX:ALL1"	Form1
	LOS	"RX:LOS"	Form1
	LOF	"RX:LOF"	Form1
	MF Loss	"RX:MLOSSs"	Form1
	AIS	"RX:AIS"	Form1
	SA	"RX:SA"	Form1
	XL	"RX:XL"	Form1
	XA	"RX:XA"	Form1
	RAI	"RX:RAI"	Form1
	Disconnection	"RX:DISC"	Form4
	ST LOF	"RX:SLOF"	Form1
	HGAIS	"RX:HAIS"	Form1
	BAIS	"RX:BAIS"	Form1

## SECTION 6 REMOTE COMMANDS

Item	<result>	Response format
Frame Relay	Test sequence count	"FRELay:TSC"
	Complete sequence count	"FRELay:CSC"
	Incomplete CR sequence count	"FRELay:ICRSc"
	Incomplete DT sequence count	"FRELay:IDTSc"
	Incomplete CQ sequence count	"FRELay:ICQSc"
	Receive CR packet count	"FRELay:RCRPc"
	Receive DT packet count	"FRELay:RDTPc"
	Receive CQ packet count	"FRELay:RCQPc"
	Bad frame count	"FRELay:BFC"
	Abort frame count	"FRELay:AFC"
Delay	Current	"DELy"
	Min.	"DELy:MIN"
	Max.	"DELy:MAX"
Frequency	Current	"FREQency"
Digital level	Current	"DLEVel"

## 6.6 CALCulate Sub-System

**Table 6.6-2 Contents of response type**

<b>Form</b>	<b>Format</b>	<b>Description</b>
Form1 Integer type	" XXXXXX"	For $0 \leq \text{value} < 999,999$ . Six characters right justified in 9-character positions. $> :CALCulate:DATA? "TX:EC"$ $< " 892"$
	" X.XXE+XX"	For $1.0E+06 \geq \text{value} > 9.9E+15$ . Eight characters right justified in 9-character positions. $> :CALCulate:DATA? "TX:G821:ES2"$ $< " 1.23E+07"$
	">9.99E+15"	For value $(1.00E+16)$ .
	"-----"	When there is no data that satisfies query conditions.
Form2 Decimal type	" 0.00E+00"	For value = 0 and population parameter = 0. Eight characters right justified in 9-character positions.
	" 0.00E-XX"	For value = 0. Eight characters right justified in 9-character positions.
	"<1.00E-15"	For value $= < 9.99E-16$ .
	" X.XXE-XX"	For $1.00E-15 \leq \text{value} < 9.99E-01$ . Eight characters right justified in 9-character positions. $> :CALCulate:DATA? "TX:ER"$ $< " 1.23E-05"$
	" 1.00E+00"	For value = 1. Eight characters right justified in 9-character positions.
	"-----"	When there is no data that satisfies query conditions.
Form3 % type	"XXX.XX"	0.00 to 100.00 $> :CALCulate:DATA? "TX:G821:ES"$ $< " 1.23"$
	"-----"	When there is no data that satisfies query conditions.
Form4 Decision type	" Acceptable"	Is represented with 12 characters right justified.
	"Unacceptable"	When performing M. 2100 Test, the response is " Acceptable", "Unacceptable", or " Degraded."
	" Degraded"	" Occurred" or " " is the response for Alarm Disconnection.
	" Occurred"	
	"-----"	When there is no data that satisfies query conditions.

## SECTION 6 REMOTE COMMANDS

<b>Form</b>	<b>Format</b>	<b>Description</b>
Form5 Time type	"XXXXX.XXX"	0.0001 to 10000.000 > :CALCulate:DATA? "DElay:CURRent" < " 123.456"
	" Timeout"	For value $\geq$ 10000.001
	"-----"	When there is no data that satisfies query conditions.
Form6 Frequency type	"XXXXX.XX"	For $0.00 \leq$ value $\leq 99999.99$ and Gate time = 100 ms. Eight characters right justified in 9-character positions. > :CALCulate:DATA? "FREQuency" < " 1234.56"
	"XXXXX.XXX"	For $0.000 \leq$ value $\leq 99999.999$ and Gate time = 1 s > :CALCulate:DATA? "FREQuency" < " 123.456"
	"XXXX.XXXX"	For $0.0000 \leq$ value $\leq 9999.9999$ and Gate time = 10 s. > :CALCulate:DATA? "FREQuency" < " 123.4567"
	" Overflow"	For any value $>$ the upper limit given above.
	"-----"	When there is no data that satisfies query conditions.
Form7 dBm type	" +X.X"	For $0 <$ value $\leq 3.0$ dBm. The response is right justified in 9-character positions. > :CALCulate:DATA? "DLEVel" < " +2.3"
	" 0.0"	For value = 0. The response is right justified in 9-character positions.
	" -XX.X"	For $-60.0$ dBm $\leq$ value $< 0$ . The response is right justified in 9-character positions. > :CALCulate:DATA? "DLEVel" < " -45.6"
	" Overflow"	For value $> 3.0$ dBm.
	"Underflow"	For value $< -60.0$ dBm.
	"-----"	When there is no data that satisfies query conditions.

## 6.6 CALCulate Sub-System

**:CALCulate:MDATA[:RESult]? <rmode>**

[Parameter]	<rmode>=<CHARACTER PROGRAM DATA> CURRent :Current LAST :Last
[Response]	<year1>,<month1>,<day1>,<hour1>,<minute1>,<second1>,<day2>,<hour2>,<minute2>,<second2>,<response>,<response>,...,<response>,<year1>,<month1>,<day1>,<hour1>,<minute1>,<second1>=<NR1 NUMERIC RESPONSE DATA> 1997 to 2096 :<year1> 1 to 12 :<month1> 1 to 31 :<day1> 0 to 23 :<hour1> 0 to 59 :<minute1> 0 to 59 :<second1> * When the command is invalid , the response becomes 0,0,0,0,0,0. <day2>,<hour2>,<minute2>,<second2>=<NR1 NUMERIC RESPONSE DATA> 0 to 99 :<day2> 0 to 23 :<hour2> 0 to 59 :<minute2> 0 to 59 :<second2> * When the command is invalid , the response becomes 0,0,0,0. <response>=<STRING RESPONSE DATA> Measured result of Measure screen :Table 6.6-1 (the order is the same as the order of from top to bottom in Table 6.6-1) Signal line/alarm monitor: The same as the <boolean> for : CALCulate:MONitor:SALarm?. Receive data monitor: The same as :CALCulate:MONitor:DATA8?. Common alarm monitor : The same as :CALCulate:MONitor:COMMON?.
[Function]	Queries the measured result that has been set in :CALCulate:MDATA:SET. The order of <response> is the same as the order of from top to bottom to the list given above.
[Screen]	Indicates that measurement data is the current measurement mode. Measured result screen, signal line/alarm monitor, and receive data monitor in the Measure screen.
[Example use]	When querying the measured result after selecting "TX:ERR" and "DATA" in :CALCulate:MDATA:SET for the measurement start time, 9/23/98 and 8:49:11 and the measurement elapse time, 18 days, 5 hours, 23 minutes, and 29 seconds: > :CALCulate:MDATA? CURRent < 1998,9,23,8,49,11,18,5,23,29," 123456"," 1.23E-12",...,"00000000:11111111"

## SECTION 6 REMOTE COMMANDS

**:CALCulate:MDATa:SET <item1>[,<item2>]...[,<item22>]**

[Parameter]      <item1>[,<item2>]...[,<item22>]=<STRING PROGRAM DATA>

"TX:ERR"	:Tx Error
"TX:G821"	:Tx G.821
"TX:G826"	:Tx G.826
"TX:M2100"	:Tx M.2100
"TX:HDLC"	:Tx HDLC Frame
"TX:ALAR"	:Tx Alarm
"RX:ERR"	:Rx Error
"RX:G821"	:Rx G.821
"RX:G826"	:Rx G.826
"RX:M2100"	:Rx M.2100
"RX:HDLC"	:Rx HDLC Frame
"RX:ALAR"	:Rx Alarm
"FRAMe"	:Frame Relay
"DELy"	:Delay
"FREQuency"	:Frequency
"DLEVel"	:Digital level
"TX:SALarm"	:Signal line alarm monitor (Tx)
"RX:SALarm"	:Signal line alarm monitor (Rx)
"TXRX:SALarm"	:Signal line alarm monitor (Tx/Rx)
"DATA"	:Receive data monitor
"TX:COMMON"	:Common alarm monitor (Tx)
"RX:COMMON"	:Common alarm monitor (Rx)

[Function] Sets a measured result item(s) for :CALCulate:MDATa[:RESult]?

The initial values are "TX:ERR", "TX:ALAR", "RX:ERR", and "RX:ALAR."

[Screen] The measured result screen, signal line/alarm monitor, receive data monitor, and common alarm monitor in the Measure screen.

[Restriction] If more than one same item is set, all the items after the second (including the second) are ignored.

The output from :CALCulate:MDATa[:RESult]? has the same order as the parameters set in this command.

[Example use] > :CALCulate:MDATa:SET "TX:ERR","TX:ALAR","DATA","TX:COMM"

**:CALCulate:MDATa:SET?**

- [Parameter] None
- [Response] <item1>[,<item2>]...[,<item22>]=<STRING RESPONSE DATA>  
The same as :CALCulate:MDATa:SET.
- [Function] Queries the setting status of measured result items for  
:CALCulate:MDATa[:RESult]?
- [Screen] All measured result screen, signal line/alarm monitor, receive data monitor,  
and common alarm monitor in the Measure screen.
- [Example use] > :CALCulate:MDATa:SET?  
< "TX:ERR","TX:ALAR","DATA","COMM"

**:CALCulate:ANALysis:EALogging:DATA? <start>,<stop>**

- [Parameter] <start>=<DECIMAL NUMERIC PROGRAM DATA>  
More than or equal to 1 (step 1) :First line of log data to be acquired  
<stop>=<DECIMAL NUMERIC PROGRAM DATA>  
More than or equal to 1 (step 1) :Last line of log data to be acquired  
-1 :Acquires log data up to the last line.
- [Response] <lodata>=<STRING RESPONSE DATA>  
"Contents of (one line of) log data"  
However, it returns "No Data" when no Logging data exists.
- [Function] Queries the log data in the Error/Alarm measurement.
- [Screen] Logging of Analyze:Error/Alarm screen
- [Restriction] Only the <start> value is accepted when it is larger than <stop>. If the <stop> is larger than the last line of log data, it returns the last line of log data followed by END.
- [Example use] To read 100 to 105 lines of log data while the log data has a maximum of 102 lines:  
> :CALCulate:ANALysis:EALogging:DATA? 100,105  
<" 23:05:47 27/Sep/1998 ,  
" Error count >9.99E15",  
" PSL Occur",  
" END "

## SECTION 6 REMOTE COMMANDS

**:CALCulate:ANALysis:EAHistogram:DATA?**

<numeric1>,<numeric2>,<numeric3>,<numeric4>,<numeric5>,<numeric6>,<number>

[Parameter] <DECIMAL NUMERIC PROGRAM DATA>

The start year, month, day, hour, minute, and second for the data to be read, and the number of data.

<numeric1>to<numeric6>: The start year, month, day, hour, minute, and second.

<number> : The number of data.

[Response] <time>,<alarm1>,<alarm2>,<alarm3>,<error1>,<error2>

[,<alarm1>,<alarm2>,..]<time>=<year>,<month>,<day>,<hour>,<minute>,<second>

The year, month, day, hour, minute, and second for data to be read.

If there is no data with the specified time in the parameters, the data with the time closest to and after the specified time is output.

<year>=<NR1 NUMERIC RESPONSE DATA>

Year 0,1997 to 2096

<month>=<NR1 NUMERIC RESPONSE DATA>

Month 0,1 to 12

<day>=<NR1 NUMERIC RESPONSE DATA>

Day 0,1 to 31

<hour>=<NR1 NUMERIC RESPONSE DATA>

Hour 0 to 23

<minute>=<NR1 NUMERIC RESPONSE DATA>

Minute 0 to 59

<second>=<NR1 NUMERIC RESPONSE DATA>

Second 0 to 59

<alarm1>=<STRING RESPONSE DATA>

Time when the alarm1 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<alarm2>=<STRING RESPONSE DATA>

Time when the alarm2 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<alarm3>=<STRING RESPONSE DATA>

Time when the alarm3 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<error1>=<STRING RESPONSE DATA>

Error count value

Form1

<error2>=<STRING RESPONSE DATA>

Error rate value

Form2

\* Form1,Form2,Form4 : refer to the table 6.6-2.

## 6.6 CALCulate Sub-System

\* When no data exists:

<0,0,0,0,0,0,"-----","-----","-----","-----","-----",

If the histogram data is larger than the last data, it returns the last line of log data followed by END.

[Function]

Queries the analysis result in Error/Alarm.

The resolution depends on the one when performing measurement  
(Histogram Resolution of Cond. 1 in the Measure screen).

[Screen]

Histogram of Analyze:Error/Alarm screen.

[Example use]

To read three pieces of analysis data at 1:23:45 on 10/11/98:

>:CALCulate:ANALysis:EAHistogram:DATA? 1998,10,11,1,23,45,3

<1998,10,11,1,23,45,3," 0"," 0"," 0"," 0",

" 0.00E-00"," 123456"," 123456"," 123456"," 123456"," 1.23E-12",

">9.99E+15",">9.99E+15",">9.99E+15",">9.99E+15","<1.00E-15"

### :CALCulate:ANALysis:TDAData:DATA? <address1>,<address2>

[Parameter] <address1>,<address2>=<DECIMAL NUMERIC PROGRAM DATA>

<address1> :Start address to be acquired

<address2> :End address to be acquired

If <address2>-<address1>+1 is larger than the number of trace data,  
trace data is output up to the last piece.

[Response]

<address1>,<address2>,<tdata>

<address1>,<address2>=<NR1 NUMERIC RESPONSE DATA>

Start and end addresses to be acquired

<tdata>=<STRING RESPONSE DATA>

"00,11,23,AB,...,FF"(in HEX representation)

[Function]

Acquired the trace result of word trace.

[Screen]

Analyze:Trace data screen

[Restriction]

If <address1> > <address2>, only the <address1> value is accepted.

If no trace data exists, it returns <address1>,<address2>,"".

[Example use]

When the number of trace data is only 20:

> :CALCulate:ANALysis:TDAData:DATA? 0,50

<0,19,"41,42,43,44,45,46,47,48,49,4A,4B,4C,4D,4E,4F,50,51,52,53,54"

### :CALCulate:ANALysis:TDAData:NUMBER?

[Parameter] None

[Response] <number>=<NR1 NUMERIC RESPONSE DATA>

This is the value when Boundary is set to 8 bit.

[Function]

Queries the trace byte number of word trace.

[Screen]

Analyze:Trace data screen

[Restriction]

If word trace has not been performed, it is regarded as an execution error.

[Example use]

> :CALCulate:ANALysis:TDAData:NUMBER?

<20

## SECTION 6 REMOTE COMMANDS

### :CALCulate:ANALysis:TDATa:STRigger?

[Parameter] None  
[Response] <trigger>=<NR1 NUMERIC RESPONSE DATA>  
              0 to 131070           :Stop trigger address  
              However, If no trigger address, it returns "No Data".  
[Function] Queries the stop trigger address of word trace.  
[Screen] Analyze:Trace data screen  
[Example use] > :CALCulate:ANALysis:TDATa:STRigger?  
              < 143

### :CALCulate:ANALysis:PMONitor:DATA? <start>,<stop>

[Parameter] <start>=<DECIMAL NUMERIC PROGRAM DATA>  
              More than or equal to 1 (step 1)   : First line of Protocol monitor data  
  to be acquired  
<stop>=<DECIMAL NUMERIC PROGRAM DATA>  
              More than or equal to 1 (step 1)   : Last line of Protocol monitor data  
  to be acquired  
              -1                                   : Acquires Protocol monitor data up  
  to the last line.  
[Response] <ldata>=<STRING RESPONSE DATA>  
              "Contents of (one line of) Protocol monitor data"  
              However, when no Protocol monitor data exists , it returns "No Data".  
[Function] Queries the contents of Protocol monitor data.  
[Screen] Analyze:Protocol monitor screen  
[Restriction] Only the <start> value is accepted when it is larger than <stop>. If the <stop> is larger than the last line of Protocol monitor data, it returns the last line of Protocol monito data followed by END.  
[Example use] To read 100 to 105 lines of Protocol monitor data while the log data has a maximum of 102 lines:  

```
<" 009 12:35:07.1 < I STAT TEI= 0 CR= 12      ",  
  "           00010203 04050607 08090A0B 0C0D0EOF ",  
  "           10111213 14151617 18191      ",  
  "     END
```

## 6.6 CALCulate Sub-System

### :CALCulate:ANALysis:RECall:EALogging:DATA? <start>,<stop>

[Parameter]	<start>=<DECIMAL NUMERIC PROGRAM DATA> More than or equal to 1 (step 1) : First line of log data to be acquired <stop>=<DECIMAL NUMERIC PROGRAM DATA> More than or equal to 1 (step 1) : Last line of log data to be acquired -1 : Acquires log data up to the last line.
[Response]	<lData>=<STRING RESPONSE DATA> "Contents of (one line of) log data" However, when the Recall data is not E/A Logging, it returns "No Data".
[Function]	Queries the log data of the Recall data.
[Screen]	E/A Logging of Analyze:Recall screen
[Restriction]	Only the <start> value is accepted when it is larger than <stop>. If the <stop> is larger than the last line of log data, it returns the last line of log data followed by END.
[Example use]	To read 100 to 105 lines of log data while the log data has a maximum of 102 lines: > :CALCulate:ANALysis:RECall:EALogging:DATA? 100,105 <" 23:05:47 27/Sep/1998 , " Error count >9.99E15", " PSL Occur", " END "

## SECTION 6 REMOTE COMMANDS

**:CALCulate:ANALysis:RECall:EAHistogram:DATA?**

<numeric1>,<numeric2>,<numeric3>,<numeric4>,<numeric5>,<numeric6>,<number>

[Parameter] <DECIMAL NUMERIC PROGRAM DATA>

The start year, month, day, hour, minute, and second for the data to be read, and the number of data.

<numeric1> to <numeric6>: The start year,month,day,hour,minute, and second.

<number> : The number of data.

[Response] <time>,<alarm1>,<alarm2>,<alarm3>,<error1>,<error2>

[,<alarm1>,<alarm2>,...]<time>=<year>,<month>,<day>,<hour>,<minute>,<second>

The year, month, day, hour, minute, and second for data to be read.

If there is no data with the specified time in the parameters, the data with the time closest to and after the specified time is output.

<time>=<NR1 NUMERIC RESPONSE DATA>

Year 0,1997 to 2096

<month>=<NR1 NUMERIC RESPONSE DATA>

Month 0,1 to 12

<day>=<NR1 NUMERIC RESPONSE DATA>

Day 0,1 to 31

<hour>=<NR1 NUMERIC RESPONSE DATA>

Hour 0 to 23

<minute>=<NR1 NUMERIC RESPONSE DATA>

Minute 0 to 59

<second>=<NR1 NUMERIC RESPONSE DATA>

Second 0 to 59

<alarm1>=<STRING RESPONSE DATA>

Time when the alarm1 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<alarm2>=<STRING RESPONSE DATA>

Time when the alarm2 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<alarm3>=<STRING RESPONSE DATA>

Time when the alarm3 occurs (in seconds)

Form1 (Form4 when it is DISC, MFUL1)

<error1>=<STRING RESPONSE DATA>

Error count value

Form1

<error2>=<STRING RESPONSE DATA>

Error rate value

Form2

## 6.6 CALCulate Sub-System

\* Form1,Form2,Form4 : refer to the table 6-2  
However, if the Recall data is not E/A Histogram, it returns "No Data".  
\* When no data exists:  
< 0,0,0,0,0,"-----","-----","-----","-----","-----",  
If the histogram data is larger than the last data, it returns the last line of  
log data followed by END.  
[Function] Queries the analysis result of E/A Histogram data.  
The resolution depends on the Load file's resolution (Histogram Resolution).  
[Screen] E/A Histogram of Analyze:Recall screen.  
[Example use] To read three pieces of analysis data at 1:23:45 on 10/11/98:  
> :CALCulate:ANALysis:RECall:EAHistogram:DATA? 1998,10,11,1,23,45,3  
<1998,10,11,1,23,45,3," 0"," 0"," 0"," 0",  
" 0.00E-00"," 123456"," 123456"," 123456"," 123456"," 1.23E-12",  
">9.99E+15",">9.99E+15",">9.99E+15",">9.99E+15","<1.00E-15"

### :CALCulate:ANALysis:RECall:TDATa:DATA? <address1>,<address2>

[Parameter] <address1>,<address2>=<DECIMAL NUMERIC PROGRAM DATA>  
    <address1> :Start address to be acquired  
    <address2> :End address to be acquired  
    If <address2>-<address1>+1 is larger than the number of trace data,  
    trace data is output up to the last piece.  
[Response] <address1>,<address2>,<tdata>  
<address1>,<address2>=<NR1 NUMERIC RESPONSE DATA>  
    Recall start and end addresses  
<tdata>=<STRING RESPONSE DATA>  
    "00,11,23,AB,...,FF"(in HEX representation)  
    If the Recall data is not Trace Data, it returns "No Data".  
[Function] Acquired the trace result of word trace.  
[Screen] Trace data of Analyze:Recall screen  
[Restriction] If <address1> > <address2>, only the <address1> value is accepted.  
If no trace data exists, it returns <address1>,<address2>,""  
[Example use] When the number of trace data is only 20:  
> :CALCulate:ANALysis:RECall:TDATa:DATA? 0,50  
< 0,19,"41,42,43,44,45,46,47,48,49,4A,4B,4C,4D,4E,4F,50,51,52,53,54"

### :CALCulate:ANALysis:RECall:TDATa:NUMBER?

[Parameter] None  
[Response] <number>=<NR1 NUMERIC RESPONSE DATA>  
    This is the value when Boundary is set to 8 bit.  
    If the Recall data is not Trace Data, it returns "No Data".  
[Function] Queries the trace byte number of word trace.  
[Screen] Trace data of Analyze:Recall screen  
[Restriction] If word trace has not been performed, it is regarded as an execution error.  
[Example use] > :CALCulate:ANALysis:RECall:TDATa:NUMBER?  
< 20

## SECTION 6 REMOTE COMMANDS

### :CALCulate:ANALysis:RECall:TDATa:STRigger?

[Parameter] None  
[Response] <trigger>=<NR1 NUMERIC RESPONSE DATA>  
              0 to 131070           :Stop trigger address  
              However, if the Recall data is not ttrace data, it returns "No Data".  
              If no trigger address exists, it returns "No Data."  
[Function]    Queries the stop trigger address of word trace.  
[Screen]      Trace data of Analyze:Recall screen  
[Example use] > :CALCulate:ANALysis:RECall:TDATa:STRigger?  
              < 143

### :CALCulate:ANALysis:RECall:PMONitor:DATA? <start>,<stop>

[Parameter] <start>=<DECIMAL NUMERIC PROGRAM DATA>  
              More than or equal to 1 (step 1)   : First line of Protocol monitor data  
  to be acquired  
<stop>=<DECIMAL NUMERIC PROGRAM DATA>  
              More than or equal to 1 (step 1)   : Last line of Protocol monitor data  
  to be acquired  
              -1                                  : Acquires Protocol monitor data up  
  to the last line.  
[Response]    <ldata>=<STRING RESPONSE DATA>  
              "Contents of (one line of) Protocol monitor data"  
              However, when no Protocol monitor data exists, it returns "No Data".  
[Function]    Queries the Protocol monitor data of the Recall data.  
[Screen]      Protocol monitor of Analyze:Recall screen  
[Restriction] Only the <start> value is accepted when it is larger than <stop>. If the <stop> is larger than the last line of Protocol monitor data, it returns the last line of Protocol monito data followed by END.  
[Example use] To read 100 to 105 lines of Protocol monitor data while the log data has a maximum of 102 lines:  

```
<" 009 12:35:07.1 < I STAT TEI= 0 CR= 12      ",  
     "          00010203 04050607 08090A0B 0C0D0E0F  ",  
     "          10111213 14151617 18191           ",  
     "END"                                         "
```

## 6.6 CALCulate Sub-System

**:CALCulate:MONitor:SALarm? <string>**

- [Parameter]    <string>=<STRING PROGRAM DATA>  
              "[CURRent:<line>:<result>"    :The current measured result.  
              "HISTory:<line>:<result>"    :The History result.  
              <line>=<CHARACTOR PROGRAM DATA>  
              TX            :Tx  
              RX            :Rx  
              TXRX        :Tx&Rx  
              For the contents of <result>, refer to Table 6.6-3.  
[Response]    <salarm>=<STRING RESPONSE DATA>  
              "0"          :Alarm did not occur.  
              "1"          :Alarm occurred.  
              "\_"          :Item is invalid.  
[Function]     Queries the status of signal line/alarm monitor.  
[Screen]       Signal line/alarm monitor display area.  
[Example use]   > :CALCulate:MONitor:SALarm? "HISTory:TX:SD"  
              < "1"

## SECTION 6 REMOTE COMMANDS

**Table 6.6-3 Queried monitor result**

Item	<result>	Item	<result>
SD	"SD"	MF Loss	"MLOSSs"
RD	"RD"	QFL	"QFL"
ST1	"ST1"	SGA	"SGA"
ST2	"ST2"	SGB	"SGB"
RT	"RT"	SGC	"SGC"
ER	"ER"	SGD	"SGD"
DR	"DR"	RAI	"RAI"
RS	"RS"	ST LOF	"SLOF"
CS	"CS"	HG AIS	"HAIS"
CD	"CD"	BAIS	"BAIS"
CI	"CI"	ST bit1	"SBIT1"
TI	"TI"	ST bit2	"SBIT2"
LLB	"LLB"	ST bit3	"SBIT3"
RLB	"RLB"	ST bit4	"SBIT4"
T	"T"	ST bit5	"SBIT5"
R	"R"	ST bit6	"SBIT6"
C	"C"	SA4	"SA4"
I	"I"	SA5	"SA5"
S	"S"	SA6	"SA6"
B	"B"	SA7	"SA7"
LOS	"LOS"	SA8	"SA8"
AIS	"AIS"	E1	"E1"
XL	"XL"	Si1	"SI1"
XA	"XA"	E2	"E2"
PFA	"PFA"	Si2	"SI2"
INFO OT	"INF0"	Y	"Y"
INFO 1	"INF1"	SIG	"SIG"
INFO 3	"INF3"	SA	"SA"
INFO OR	"INF0"	X1	"X1"
INFO 2	"INF2"	X2	"X2"
INFO 4	"INF4"	X3	"X3"
S11	"S11"	Q11	"Q11"
S12	"S12"	Q12	"Q12"
S13	"S13"	Q13	"Q13"
S14	"S14"	Q14	"Q14"
LOF	"LOF"		

## 6.6 CALCulate Sub-System

### :CALCulate:MONitor:DATA?

[Parameter] None  
[Response] <data>=<STRING RESPONSE DATA>  
              "<txpattern>:<rxfloor>"  
              <txpattern>  
              "00000000" to "11111111" :When Input/Output is 1Out/1In or 2In.  
              "-----"                         :When Input/Output is 1In or invalid.  
              <rxfloor>  
              "00000000" to "11111111"  
              "-----"                         :When it is invalid.  
              \*)The length of response depends on the length of valid bits.  
[Parameter] Queries the receive data monitor.  
[Screen] Receive data monitor display area.  
[Example use] > :CALCulate:MONitor:DATA?  
              < "01010101:10101010"

### :CALCulate:MONitor:COMMON? <result>

[Parameter] <result>=<STRING PROGRAM DATA>  
              "<line>:<result1>"  
              <line>=<CHARACTOR PROGRAM DATA>  
              TX    :Tx  
              RX    :Rx  
              <result1>=<CHARACTOR PROGRAM DATA>  
              ALL1  :ALL1  
              ALL0  :ALL0  
              OPD   :OPD  
              FLGL  :FLGL  
              FRAL  :FRAL  
              PSL   :PSL  
              FECN  :FECN  
              BECN  :BECN  
              CLLM  :CLLM  
[Response] <common>=<STRING RESPONSE DATA>  
              "0"      :Alarm did not occur.  
              "1"      :Alarm occurred.  
              "-"      :Item is invalid.  
[Function] Queries the status of common alarm monitor.  
[Screen] Common alarm monitor display area  
[Example use] > :CALCulate:MONitor:COMMON? "TX:ALL1"  
              < 1

## SECTION 6 REMOTE COMMANDS

### :CALCulate:MONitor:SBIT? <result>

[Parameter]    <result>=<STRING PROGRAM DATA>  
                    "<line>:<channel>"  
                    <line>=<CHARACTOR PROGRAM DATA>  
                    TX :Tx  
                    RX :Rx  
                    <channel>=<CHARACTOR PROGRAM DATA>  
                    CH01 to CH30 :CH01 to CH30

[Response]    <sigbit>=<STRING RESPONSE DATA>  
                    "0000" to "1111"  
                    "00" to "11"  
                    "0" to "1"  
                    "----" : When invalid.

[Function]    Queries the signaling bit monitor.

[Screen]    CAS:Signalizing bit monitoring of Measure:Error/Alarm screen.

[Restriction]    If CAS/FAS options are not installed, no response data occurs and the execution error is returned.

[Example use]    > :CALCulate:MONitor:SBIT? "Rx:CH01"  
                    <"1111"

### :CALCulate:MONitor:FAS? <result>

[Parameter]    <result>=<STRING PROGRAM DATA>  
                    "<line>:<fas>"  
                    <line>=<CHARACTOR PROGRAM DATA>  
                    TX :Tx  
                    RX :Rx  
                    <fas>=<CHARACTOR PROGRAM DATA>  
                    FRAME0 to FRAME24 :Frame1 to Frame24  
                    DL :DL bit  
                    TS16 :TS16 Frame0

[Response]    <monitor>=<STRING RESPONSE DATA>  
                    "0000000000000000" to "1111111111111111"  
                    "00000000" to "11111111"  
                    "00000" to "11111"  
                    "0" to "1"  
                    "-----" : When invalid.

[Function]    Queries the frame bit monitor.

[Screen]    FAS:Tx/Rx monitoring on Measure:Error/Alarm screen.

[Restriction]    If CAS/FAS options are not installed, no response data occurs and the execution error is returned.

[Example use]    > :CALCulate:MONitor:FAS? "Rx:DL"  
                    <"1111111100000000"

## 6.7 TEST Sub-System

---

### :TEST:TMODE <tmode>

[Parameter] <tmode>=<CHARACTER PROGRAM DATA>  
ALL :All  
INTerface:Interface  
MEASure:Measure  
INFO :INFO1 Send

[Function] Sets the test mode of selftest.  
[Screen] Test mode of Setup:Selftest screen.  
[Example use] > :TEST:TMODE ALL

### :TEST:TMODE?

[Parameter] None  
[Response] <tmode>=<CHARACTER RESPONSE DATA>  
The same as :TEST:TMODE.

[Function] Queries the setting status of the test mode of selftest.  
[Screen] Sets the test mode of selftest.  
[Example use] > :TEST:TMODE?  
< ALL

## SECTION 6 REMOTE COMMANDS

### :TEST:TITem <titem>

[Parameter] <titem>=<CHARACTER PROGRAM DATA>

ALL	:All
V24	:V.24/V.28(RS-232C)
V35	:V.35
V36	:V.36
RS449	:RS-449
X20	:X.20(RS-423)
X21	:X.21(RS-422)
TCMos	:TTL/CMOS
K64	:G.703 64k
K192	:I.430/I.430-a 192k
M1_5	:G.704/I.431 1.544M
M2	:G.704/I.431 2.048M
CMIM2	:2M CMI
M6	:G.704 6.312M
CERRor	:Character error
FRELay	:Frame relay
TDElay	:Transmit delay
LIDelay	:Line Interval delay
FREQUency	:Frequency
DLEVel	:Digital level
WPATtern	:Word pattern
LAPD	:LAPD

[Function] Sets the test item of selftest.

[Screen] Test item of Setup:Selftest screen.

[Restriction] Exists the parameter depending on sort of the interface unit.

MU643000A : All parameters are available

MU643000B/K : M2 is unavailable.

MU643000C : M1\_5, CMIM2 and M6 are unavailable.

[Example use] > :TEST:TITem "ALL"

### :TEST:TITem?

[Parameter] None

[Response] <titem>=<CHARACTER RESPONSE DATA>

The same as :TEST:TITem.

[Function] Queries the setting status of the test item of selftest.

[Screen] Test item of Setup:Selftest screen.

[Example use] > :TEST:TITem?

< ALL

**:TEST:STATE?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
    0 : Measuring is over or not yet performed.  
    1 : In the middle of measuring.  
[Function] Queries the status of selftest.  
[Screen] None  
[Example use] > :TEST:STATE?  
          < 0

**:TEST:STARt**

[Parameter] None  
[Function] Sets selftest to start measuring.  
[Screen] Area for operating instruction button  
[Restriction] This function is ignored and regarded as an execution error in the middle of measuring.  
[Example use] > :TEST:STARt

**:TEST:STOP**

[Parameter] None  
[Function] Sets selftest to stop measuring.  
[Screen] Area for operating instruction button  
[Example use] > :TEST:STOP

## SECTION 6 REMOTE COMMANDS

### :TEST:ECODE? <block>

- [Parameter]    <block>=<CHARACTER PROGRAM DATA>  
                    BLOCk0 :Displays the first to 36<sup>th</sup> error codes.
- [Response]    <string>=<STRING RESPONSE DATA>  
                    "XXNNN"XX        : 2-character alphanumerics indicating a selftest item.  
                    NNN        : 3-digit number (octal number) indicating the content of an error.  
If the specified block does not include any data, it outputs "----".  
If the specified block includes more than one piece of data, they are delimited by a comma.  
The maximum number of error codes possible to output at one time is 36.
- [Function]    Queries the result (error code) of selftest.  
For detailed information about the error code, refer to Section 8.
- [Screen]    Setup:Selftest screen
- [Example use] > :TEST:ECODE? BLOCk0  
<"1A001,1B002,1C003,1D004"

### :TEST:RESULT?

- [Parameter]    None
- [Response]    <result>=<STRING RESPONSE DATA>  
                    Form4 (" Acceptable" :No error.  
                    "Unacceptable" :Error.  
                    "-----" :Measuring not yet performed, or terminated.)
- [Function]    Queries the result of selftest.
- [Screen]    Setup:Selftest screen
- [Example use] > :TEST:RESUlt?  
<"Unacceptable"

## 6.8 STATus Sub-System

---

### :STATus:PRESet

- [Parameter] None  
 [Function] Initializes the status register.  
     The following registers are affected by this command:  
     · Transition and enabled registers in the SCPI specification status register.  
     · Transition and enabled registers in the device specific status register.
- [Example use] > :STATus:PRESet

### <QUEStionable Status Register>

Supplies a summary of TELEcom Status Register.

### :STATus:QUEStionable[:EVENT?]

- [Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     512 (Bit 9)           TELEcom Status Register Summary  
     The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the content of the Event register in the Questionable status register.
- [Example use] > :STATus:QUEStionable:EVENT?  
     or  
     > :STATus:QUEStionable?  
     < 512

### :STATus:QUEStionable:CONDition?

- [Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the content of the Condition register in the Questionable status register.
- [Example use] > :STATus:QUEStionable:CONDition?  
     < 512

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in the QUEStionable summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the QUEStionable summary bit becomes true.
- [Example use] To set bit 9:  
>:STATus:QUEStionable:ENABLE 512

### :STATus:QUEStionable:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:ENABLE?  
< 512

### :STATus:QUEStionable:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of QUEStionable Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of QUEStionable Event Register.
- [Example use] To set bit 9:  
> :STATus:QUEStionable:PTRansition 512

### :STATus:QUEStionable:PTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of the mask of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:PTRansition?  
< 512

### :STATus:QUESTIONable:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit  
of QUESTIONable Condition Register changes from 1 to 0, a 1 is written into  
the corresponding bit of QUESTIONable Event Register.
- [Example use] Sets bit 9:  
> :STATus:QUESTIONable:NTRansition 512

### :STATus:QUESTIONable:NTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:NTRansition?  
< 512

## SECTION 6 REMOTE COMMANDS

### <TELecom Status Register>

Supplies a summary of MEASure, ERRor, ALARm, and CONNnection Status Register.

### :STATus:QUEStionable:TELecom[:EVENT?]

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> 1 (Bit 0) MEASure Status Register summary. 2 (Bit 1) EALarm Status Register summary. 4 (Bit 2) FRELay Status Register summary. 8 (Bit 3) DELay Status Register summary. 16 (Bit 4) FREQuency Status Register summary. 32 (Bit 5) MONitor Status Register summary. 64 (Bit 6) CONNnection Status Register summary. 128 (Bit 7) TXCas Status Register summary 256 (Bit 8) RXCas Status Register summary 512 (Bit 9) TXFas1 Status Register summary 1024 (Bit 10) TXFas2 Status Register summary 2048 (Bit 11) RXFas1 Status Register summary 4096 (Bit 12) RXFas2 Status Register summary  The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Event register in the TELecom status register.
[Example use]	> :STATus:QUEStionable:TELecom:EVENT? or > :STATus:QUEStionable:TELecom? < 9

### :STATus:QUEStionable:TELecom:CONDition?

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Condition register in the TELecom status register.
[Example use]	> :STATus:QUEStionable:TELecom:CONDition? < 9

**:STATus:QUESTIONable:TELEcom:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  It reports the status of Event Enable Register corresponding to the mask, in  
                  the TELEcom summary bit.  
                  When the bit of Event Enable Register is set to 1 and the corresponding  
                  Event Bit is true, the TELEcom summary bit becomes true.
- [Example use] To set bits 1 and 2:  
                  > :STATus:QUESTIONable:TELEcom:ENABLE 5

**:STATus:QUESTIONable:TELEcom:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUESTIONable:TELEcom:ENABLE?  
                  < 5

**:STATus:QUESTIONable:TELEcom:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TELEcom Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TELEcom Event Register.
- [Example use] To set bits 0 and 1:  
                  > :STATus:QUESTIONable:TELEcom:PTRansition 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:PTRansition?  
< 3

### **:STATus:QUEStionable:TELecom:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TELecom Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TELecom Event Register.  
[Example use] To set bits 2 and 3:  
> :STATus:QUEStionable:TELecom:NTRansition 12

### **:STATus:QUEStionable:TELecom:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:NTRansition?  
< 12

**<MEASure Status Register>**

Displays the status of measurement or other information.

**:STATus:QUEStionable:TELecom:MEASure[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

- 1 (Bit 0) In the middle of measuring Error/Alarm.
- 2 (Bit 1) Waiting for Error/Alarm program start.
- 4 (Bit 2) Waiting for establishment of Error/Alarm synchronization.
- 8 (Bit 3) In the middle of measuring Frame Relay.
- 16 (Bit 4) Waiting for Frame Relay link.
- 32 (Bit 5) In the middle of measuring Delay.
- 64 (Bit 6) Waiting for start trigger of Line Interval in Delay measurement.
- 128 (Bit 7) In the middle of measuring Frequency.
- 256 (Bit 8) In the middle of measuring Digital Level.
- 512 (Bit 9) In the middle of sending in Word Trace.
- 1024 (Bit10) In the middle of tracing in Word Trace.
- 2048 (Bit11) Waiting for start trigger of Word Trace.
- 4096 (Bit12) Repeat measurement completed.
- 8192 (Bit13) In the middle of monitoring protocol data.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the MEASure status register.

[Example use] > :STATus:QUEStionable:TELecom:MEASure:EVENT?

or

> :STATus:QUEStionable:TELecom:MEASure?

< 640

**:STATus:QUEStionable:TELecom:MEASure:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the MEASure status register.

[Example use] > :STATus:QUEStionable:TELecom:MEASure:CONDition?

< 640

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:MEASure:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the MEASure summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the MEASure summary bit becomes true.
- [Example use] To set bits 8 and 9:  
> :STATus:QUEStionable:TELecom:MEASure:ENABLE 768

### :STATus:QUEStionable:TELecom:MEASure:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MEASure:ENABLE?  
< 768

### :STATus:QUEStionable:TELecom:MEASure:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
MEASure Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of MEASure Event Register.
- [Example use] To set bits 0 to 5:  
> :STATus:QUEStionable:TELecom:MEASure:PTRansition 63

**:STATus:QUESTIONable:TELEcom:MEASure:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:MEASure:PTRansition?  
< 63

**:STATus:QUESTIONable:TELEcom:MEASure:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of MEASure Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of MEASure Event Register.
- [Example use] To set bits 0 and 5:  
> :STATus:QUESTIONable:TELEcom:MEASure:NTRansition 33

**:STATus:QUESTIONable:TELEcom:MEASure:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:MEASure:NTRansition?  
< 33

## SECTION 6 REMOTE COMMANDS

### <EALarm Status Register>

Supplies a summary of ERRor, TXALarm, and RXALarm Status Register.

### :STATus:QUEStionable:TELecom:EALarm[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

- 1 (Bit 0) ERRor Status Register summary.
- 2 (Bit 1) TXALarm Status Register summary.
- 4 (Bit 2) RXALarm Status Register summary.
- 8 (Bit 3) TXALarm2 Status Register summary.
- 16 (Bit 4) RXALarm2 Status Register summary.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the EALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:EVENT?

or

> :STATus:QUEStionable:TELecom:EALarm?

< 1

### :STATus:QUEStionable:TELecom:EALarm:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the EALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:CONDition?

< 1

### :STATus:QUEStionable:TELecom:EALarm:ENABLE <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the EALarm summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the EALarm summary bit becomes true.

[Example use] To set bits 0 and 1:

> :STATus:QUEStionable:TELecom:EALarm:ENABLE 3

**:STATus:QUESTIONable:TELEcom:EALarm:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUESTIONable:TELEcom:EALarm:ENABLE?  
< 3

**:STATus:QUESTIONable:TELEcom:EALarm:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of EALarm Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of EALarm Event Register.
- [Example use] To set bit 0:  
> :STATus:QUESTIONable:TELEcom:EALarm:PTRansition 1

**:STATus:QUESTIONable:TELEcom:EALarm:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:EALarm:PTRansition?  
< 1

**:STATus:QUESTIONable:TELEcom:EALarm:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of EALarm Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of EALarm Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:EALarm:NTRansition 2

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:EALarm:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:NTRansition?  
< 2

**<ERRor Status Register>**

Displays the status of error occurrence.

**:STATus:QUEStionable:TELecom:EALarm:ERRor[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

- 1 (Bit 0) Rx line error occurred.
- 2 (Bit 1) Rx line clock slip occurred.
- 4 (Bit 2) Rx line character error occurred.
- 8 (Bit 3) Rx line PSL occurred.
- 16 (Bit 4) Rx line Bad Frame occurred.
- 32 (Bit 5) Rx line Abort Frame occurred.
- 64 (Bit 6) Not Used
- 128 (Bit 7) Tx line error occurred.
- 256 (Bit 8) Not Used
- 512 (Bit 9) Not Used
- 1024 (Bit10) Not Used
- 2048 (Bit11) Tx line Bad Frame occurred.
- 4096 (Bit12) Tx line Abort Frame occurred.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the ERRor status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:ERRor:EVENT?

or

> :STATus:QUEStionable:TELecom:EALarm:ERRor?  
< 8126

**:STATus:QUEStionable:TELecom:EALarm:ERRor:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the ERRor status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:ERRor:CONDition?

< 8128

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:EALarm:ERRor:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the ERRor summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true ,the ERRor summary bit become true.
- [Example use] To set bits 0 to 12:  
> :STATus:QUEStionable:TELecom:EALarm:ERRor:ENABLE 8191

### :STATus:QUEStionable:TELecom:EALarm:ERRor:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:ERRor:ENABLE?  
< 8191

### :STATus:QUEStionable:TELecom:EALarm:ERRor:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
ERRor Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of ERRor Event Register.
- [Example use] To set bits 0 to 5:  
> :STATus:QUEStionable:TELecom:EALarm:ERRor:PTRansition 63

### :STATus:QUEStionable:TELecom:EALarm:ERRor:PTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:ERRor:PTRansition?  
< 63

**:STATus:QUEStionable:TELecom:EALarm:ERRor:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
                  When the bit of Negative Transition Filter is set and the corresponding bit  
                  of ERRor Condition Register changes from 1 to 0, a 1 is written into the  
                  corresponding bit of ERRor Event Register.
- [Example use] To set bits 7 to 12:  
                  > :STATus:QUEStionable:TELecom:EALarm:ERRor:NTRansition 8064

**:STATus:QUEStionable:TELecom:EALarm:ERRor:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:ERRor:NTRansition?  
                  < 8064

## SECTION 6 REMOTE COMMANDS

### <TXALarm Status Register>

Displays the status of alarm occurrence in Tx line.

#### :STATus:QUEStionable:TELecom:EALarm:TXALarm[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Power Fail occurred.
2	(Bit 1)	PSL occurred.
4	(Bit 2)	OPD occurred.
8	(Bit 3)	FLGL occurred.
16	(Bit 4)	ALL0 occurred.
32	(Bit 5)	ALL1 occurred.
64	(Bit 6)	LOS occurred.
128	(Bit 7)	LOF occurred.
256	(Bit 8)	MF loss occurred.
512	(Bit 9)	AIS occurred.
1024	(Bit10)	SA occurred.
2048	(Bit11)	XL occurred.
4096	(Bit12)	XA occurred.
8192	(Bit13)	RAI occurred.
16384	(Bit14)	Disconnection occurred.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm:EVENT?

or

> :STATus:QUEStionable:TELecom:EALarm:TXALarm?

< 9

#### :STATus:QUEStionable:TELecom:EALarm:TXALarm:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm:CONDition?

< 9

**:STATus:QUEStionable:TELecom:EALarm:TXALarm:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  It reports the status of Event Enable Register corresponding to the mask, in  
                  the TXALarm summary bit.  
                  When the bit of Event Enable Register is set to 1 and the corresponding  
                  Event Bit is true, the TXALarm summary bit becomes true.
- [Example use] To set bits 1 and 2:  
 > :STATus:QUEStionable:TELecom:EALarm:TXALarm:ENABLE 5

**:STATus:QUEStionable:TELecom:EALarm:TXALarm:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm:ENABLE?  
 < 6

**:STATus:QUEStionable:TELecom:EALarm:TXALarm:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXALarm Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXALarm Event Register.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:EALarm:TXALarm:PTRansition 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:EALarm:TXALarm:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter  
[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm:PTRansition?  
< 3

### **:STATus:QUEStionable:TELecom:EALarm:TXALarm:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXALarm Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXALarm Event Register.  
[Example use] To set bits 2 and 3:  
> :STATus:QUEStionable:TELecom:EALarm:TXALarm:NTRansition 12

### **:STATus:QUEStionable:TELecom:EALarm:TXALarm:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm:NTRansition?  
< 12

**<RXALarm Status Register>**

Displays the status of alarm occurrence in Rx line.

**:STATus:QUEStionable:TELecom:EALarm:RXALarm[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Power Fail occurred.
2	(Bit 1)	PSL occurred.
4	(Bit 2)	OPD occurred.
8	(Bit 3)	FLGL occurred.
16	(Bit 4)	ALL0 occurred.
32	(Bit 5)	ALL1 occurred.
64	(Bit 6)	LOS occurred.
128	(Bit 7)	LO occurred.
256	(Bit 8)	MF LOSS occurred.
512	(Bit 9)	AIS occurred.
1024	(Bit10)	SA occurred.
2048	(Bit11)	XL occurred.
4096	(Bit12)	XA occurred.
8192	(Bit13)	RAI occurred.
16384	(Bit14)	Disconnection occurred.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm:EVENT?

or

> :STATus:QUEStionable:TELecom:EALarm:RXALarm?

< 9

**:STATus:QUEStionable:TELecom:EALarm:RXALarm:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm:CONDition?  
< 9

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:EALarm:RXALarm:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the RXALarm summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the RXALarm summary bit becomes true.
- [Example use] To set bits 1 and 2:  
> :STATus:QUEStionable:TELecom:EALarm:RXALarm:ENABLE 6

### :STATus:QUEStionable:TELecom:EALarm:RXALarm:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm:ENABLE?  
< 6

### :STATus:QUEStionable:TELecom:EALarm:RXALarm:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXALarm Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXALarm Event Register.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:EALarm:RXALarm:PTRansition 3

**:STATus:QUEStionable:TELecom:EALarm:RXALarm:PTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of Positive Transition Filter.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm:PTRansition?  
< 3

**:STATus:QUEStionable:TELecom:EALarm:RXALarm:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.

[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXALarm Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXALarm Event Register.

[Example use] To set bits 2 and 3:  
> :STATus:QUEStionable:TELecom:EALarm:RXALarm:NTRansition 12

**:STATus:QUEStionable:TELecom:EALarm:RXALarm:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of Negative Transition Filter.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm:NTRansition?  
< 12

## SECTION 6 REMOTE COMMANDS

### <TXALarm2 Status Register>

Displays the status of alarm occurrence in Tx line at error/alarm measurement.

#### :STATus:QUEStionable:TELecom:EALarm:TXALarm2[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

- 1 (Bit 0) ST LOF occurred.
- 2 (Bit 1) HG AIS occurred.
- 4 (Bit 2) BAIS occurred.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the contents of the Event register in the TXALarm2 status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm2:EVENT?

or

> :STATus:QUEStionable:TELecom:EALarm:TXALarm2?

< 1

#### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the contents of the Condition register in the TXALarm status register.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm2:CONDition?  
< 1

#### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:ENABLE <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the TXALarm2 summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event bit is true, the TXALarm2 summary bit becomes true.

[Example use] To set bits 0 and 1.

> :STATus:QUEStionable:TELecom:EALarm:TXALarm2:ENABLE 3

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:ENABLE?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm2:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of TXALarm2 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of TXALarm2 Event Register.  
[Example use] To set bit 0.  
> :STATus:QUEStionable:TELecom:EALarm:TXALarm2:PTRansition 1

### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:PTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm2:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:EALarm:TXALarm2:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXALarm2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXALarm2 Event Register.  
[Example use] To set bit 1.  
> :STATus:QUEStionable:TELecom:EALarm:TXALarm2:NTRansition 2

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:EALarm:TXALarm2:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of the Negative Transition Filter.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:TXALarm2:NTRansition?  
< 2

**<RXALarm2 Status Register>**

Displays the status of alarm occurrence in Rx line at error/alarm measurement.

**:STATus:QUEStionable:TELecom:EALarm:RXALarm2[:EVENt]?**

[Parameter]	None
[Response]	<p>&lt;numeric&gt;=&lt;NR1 NUMERIC RESPONSE DATA&gt;</p> <p>1      (Bit 0)      ST LOF occurred.      2      (Bit 1)      HG AIS occurred.      4      (Bit 2)      BAIS occurred.</p> <p>The response is the total of the value represented by the position of each bit being set.</p>
[Function]	Queries the contents of the Event register in the RXALarm2 status register.
[Example use]	> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:EVENt? or > :STATus:QUEStionable:TELecom:EALarm:RXALarm2? < 1

**:STATus:QUEStionable:TELecom:EALarm:RXALarm2:CONDition?**

[Parameter]	None
[Response]	<p>&lt;numeric&gt;=&lt;NR1 NUMERIC RESPONSE DATA&gt;</p> <p>The response is the total of the value represented by the position of each bit being set.</p>
[Function]	Queries the contents of the Condition register in the RXALarm status register.
[Example use]	> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:CONDition? < 1

**:STATus:QUEStionable:TELecom:EALarm:RXALarm2:ENABLE <numeric>**

[Parameter]	<numeric>=<DECIMAL NUMERIC PROGRAM DATA>
	Sets the total of the value that the position of each bit to be set represents.
	To set all bits to be false, set 0.
[Function]	Sets the mask of Event Enable Register.
	It reports the status of Event Enable Register corresponding to the mask, in the RXALarm2 summary bit.
	When the bit of Event Enable Register is set to 1 and the corresponding Event bit is true, the RXALarm2 summary bit becomes true.
[Example use]	To set bits 0 and 1.
	> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:EALarm:RXALarm2:ENABLE?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm2:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:EALarm:RXALarm2:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of RXALarm2 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of RXALarm2 Event Register.  
[Example use] To set bit 0.  
> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:PTRansition 1

### **:STATus:QUEStionable:TELecom:EALarm:RXALarm2:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use]> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:EALarm:RXALarm2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXALarm2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXALarm2 Event Register.  
[Example use] To set bit 1.  
> :STATus:QUEStionable:TELecom:EALarm:RXALarm2:NTRansition 2

## 6.8 STATus Sub-System

**:STATus:QUEStionable:TELecom:EALarm:RXALarm2:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of the Negative Transition Filter.

[Example use] > :STATus:QUEStionable:TELecom:EALarm:RXALarm2:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <FR<sub>E</sub>Lay Status Register>

Displays the measured result or other information of Frame Relay measurement.

### :STATus:QUEStionable:TELecom:FR<sub>E</sub>Lay[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Test sequence count occurred.
2	(Bit 1)	Complete sequence count occurred.
4	(Bit 2)	Incomplete CR sequence count occurred.
8	(Bit 3)	Incomplete DT sequence count occurred.
16	(Bit 4)	Incomplete CQ sequence count occurred.
32	(Bit 5)	Receive CR packet count occurred.
64	(Bit 6)	Receive DT packet count occurred.
128	(Bit 7)	Receive CQ packet count occurred.
256	(Bit 8)	Bad Frame occurred.
512	(Bit 9)	Abort Frame occurred.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the FR<sub>E</sub>Lay status register.

[Example use] > :STATus:QUEStionable:TELecom:FR<sub>E</sub>Lay:EVENT?

or

> :STATus:QUEStionable:TELecom:FR<sub>E</sub>Lay?

< 640

### :STATus:QUEStionable:TELecom:FR<sub>E</sub>Lay:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the FR<sub>E</sub>Lay status register.

[Example use] > :STATus:QUEStionable:TELecom:FR<sub>E</sub>Lay:CONDition?

< 640

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:FRElAy:ENABLE <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 It reports the status of Event Enable Register corresponding to the mask, in  
                 the FRElAy summary bit.  
                 When the bit of Event Enable Register is set to 1 and the corresponding  
                 Event Bit is true, the FRElAy summary bit becomes true.
- [Example use] To set bits 8 and 9:  
> :STATus:QUEStionable:TELecom:FRElAy:ENABLE 768

### :STATus:QUEStionable:TELecom:FRElAy:ENABLE?

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:FRElAy:ENABLE?  
< 768

### :STATus:QUEStionable:TELecom:FRElAy:PTRansition <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 FRElAy Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of FRElAy Event Register.
- [Example use] To set bits 0 to 5:  
> :STATus:QUEStionable:TELecom:FRElAy:PTRansition 63

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:FRELay:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:FRELay:PTRansition?  
< 63

### **:STATus:QUEStionable:TELecom:FRELay:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of FRELay Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of FRELay Event Register.  
[Example use] To set bits 0 and 5:  
> :STATus:QUEStionable:TELecom:FRELay:NTRansition 33

### **:STATus:QUEStionable:TELecom:FRELay:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:FRELay:NTRansition?  
< 33

**<Delay Status Register>**

Displays the measured result of Delay measurement.

**:STATus:QUEStionable:TELecom:DELay[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1 (Bit 0) Data arrived.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the DELay status register.

[Example use] > :STATus:QUEStionable:TELecom:DELay:EVENT?

or

> :STATus:QUEStionable:TELecom:DELay?

< 0

**:STATus:QUEStionable:TELecom:DELay:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the DELay status register.

[Example use] > :STATus:QUEStionable:TELecom:DELay:CONDition?

< 0

**:STATus:QUEStionable:TELecom:DELay:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the DELay summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the DELay summary bit becomes true.

[Example use] To set bit 0:

> :STATus:QUEStionable:TELecom:DELay:ENABLE 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:DELay:ENABLE?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:QUEStionable:TELecom:DELay:ENABLE?  
< 1

### :STATus:QUEStionable:TELecom:DELay:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of DELay Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of DELay Event Register.  
[Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:DELay:PTRansition 1

### :STATus:QUEStionable:TELecom:DELay:PTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:DELay:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:DELay:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of DELay Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of DELay Event Register.  
[Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:DELay:NTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:DELay:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of Negative Transition Filter.

[Example use]

> :STATus:QUEStionable:TELecom:DELay:NTRansition?

< 1

## SECTION 6 REMOTE COMMANDS

### <FREQuency Status Register>

Displays the measured result of Frequency measurement.

### :STATus:QUEStionable:TELecom:FREQuency[:EVEnT]?

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> 1 (Bit 0) Data arrived. The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Event register in the FREQuency status register.
[Example use]	> :STATus:QUEStionable:TELecom:FREQuency:EVEnT? or > :STATus:QUEStionable:TELecom:FREQuency? < 0

### :STATus:QUEStionable:TELecom:FREQuency:CONDition?

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Condition register in the FREQuency status register.
[Example use]	> :STATus:QUEStionable:TELecom:FREQuency:CONDition? < 0

### :STATus:QUEStionable:TELecom:FREQuency:ENABLE <numeric>

[Parameter]	<numeric>=<DECIMAL NUMERIC PROGRAM DATA> Sets the total of the value that the position of each bit to be set represents. To set all bits to be false, set 0.
[Function]	Sets the mask of Event Enable Register. It reports the status of Event Enable Register corresponding to the mask, in the FREQuency summary bit. When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the FREQuency summary bit becomes true.
[Example use]	To set bit 0: > :STATus:QUEStionable:TELecom:FREQuency:ENABLE 1

**:STATus:QUEStionable:TELecom:FREQuency:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:FREQuency:ENABLE?  
< 1

**:STATus:QUEStionable:TELecom:FREQuency:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of FREQuency Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of FREQuency Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:FREQuency:PTRansition 1

**:STATus:QUEStionable:TELecom:FREQuency:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:FREQuency:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:FREQuency:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of FREQuency Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of FREQuency Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:FREQuency:NTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:FREQuency:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of Negative Transition Filter.

[Example use] > :STATus:QUEStionable:TELecom:FREQuency:NTRansition?

< 1

**<MONitor Status Register>**

Supplies a summary of SALarm\* Status Register (where \* stands for 1 to 5).

**:STATus:QUEStionable:TELecom:MONitor[:EVENT] ?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	SALarm1 Status Register summary.
2	(Bit 1)	SALarm2 Status Register summary.
4	(Bit 2)	SALarm3 Status Register summary.
8	(Bit 3)	SALarm4 Status Register summary.
16	(Bit 4)	SALarm5 Status Register summary.
32	(Bit 5)	COMMON Status Register summary.
64	(Bit 6)	SALarm6 Status Register summary.
128	(Bit 7)	SALarm7 Status Register summary.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the MONitor status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor?

< 1

**:STATus:QUEStionable:TELecom:MONitor:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the MONitor status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:CONDition?

< 1

**:STATus:QUEStionable:TELecom:MONitor:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the MONitor summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the MONitor summary bit becomes true.

[Example use] To set bits 0 and 1:

> :STATus:QUEStionable:TELecom:MONitor:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:MONitor:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of MONitor Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of MONitor Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:PTRansition 1

### **:STATus:QUEStionable:TELecom:MONitor:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:MONitor:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of MONitor Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of MONitor Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:MONitor:NTRansition 2

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:MONitor:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <SAAlarm1 Status Register>

Indicates the results of monitoring signal lines for V.24/V.28, V.35, V.36, and RS-449

#### :STATus:QUEStionable:TELecom:MONitor:SAAlarm1[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	SD is 1.
2	(Bit 1)	RD is 1.
4	(Bit 2)	ST1 is ON.
8	(Bit 3)	ST2 is ON.
16	(Bit 4)	RT is ON.
32	(Bit 5)	ER is ON.
64	(Bit 6)	DR is ON.
128	(Bit 7)	RS is ON.
256	(Bit 8)	CS is ON.
512	(Bit 9)	CD is ON.
1024	(Bit 10)	CI is ON.
2028	(Bit 11)	TI is ON.
4096	(Bit 12)	LLB is ON.
8192	(Bit 13)	RLB is ON.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the SAAlarm1 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SAAlarm1:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:SAAlarm1?

< 1

#### :STATus:QUEStionable:TELecom:MONitor:SAAlarm1:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SAAlarm1 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SAAlarm1:CONDition?

< 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 It reports the status of Event Enable Register corresponding to the mask, in  
                 the SALarm1 summary bit.  
                 When the bit of Event Enable Register is set to 1 and the corresponding  
                 Event Bit is true, the SALarm1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm1:ENABLE 3

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm1:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 SALarm1 Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of SALarm1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm1:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm1:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of SALarm1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of SALarm1 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm1:NTRansition 2

### **:STATus:QUEStionable:TELecom:MONitor:SALarm1:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm1:NTRansition?  
< 2

**<SALarm2 Status Register>**

Indicates the results of monitoring signal lines for X.20 and X.21.

**:STATus:QUEStionable:TELeCom:MONitor:SALarm2[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	T is 1.
2	(Bit 1)	R is 1.
4	(Bit 2)	C is ON.
8	(Bit 3)	I is ON.
16	(Bit 4)	S is ON.
32	(Bit 5)	B is ON.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the SALarm2 status register.

[Example use] > :STATus:QUEStionable:TELeCom:MONitor:SALarm2:EVENT?

or

> :STATus:QUEStionable:TELeCom:MONitor:SALarm2?

< 1

**:STATus:QUEStionable:TELeCom:MONitor:SALarm2:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SALarm2 status register.

[Example use] > :STATus:QUEStionable:TELeCom:MONitor:SALarm2:CONDition?

< 1

**:STATus:QUEStionable:TELeCom:MONitor:SALarm2:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the SALarm2 summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the SALarm2 summary bit becomes true.

[Example use] To set bits 0 and 1:

> :STATus:QUEStionable:TELeCom:MONitor:SALarm2:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:ENABLE?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:ENABLE?  
< 3

### :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of SALarm2 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of SALarm2 Event Register.  
[Example use] To set bit 0:  
> :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:PTRansition 1

### :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:PTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:PTRansition?  
< 1

### :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of SALarm2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of SALarm2 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:MONitor:SALarm2:NTRansition 2

## 6.8 STATus Sub-System

### **:STATus:QUESTIONable:TELecom:MONitor:SALarm2:NTRansition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the current setting of Negative Transition Filter.

[Example use] > :STATus:QUESTIONable:TELecom:MONitor:SALarm2:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <SALarm3 Status Register>

Indicates the results of monitoring signal lines for I.430/I.430-a 192k.

#### :STATus:QUEStionable:TELecom:MONitor:SALarm3[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Status of INFO 0T.
2	(Bit 1)	Status of INFO 1.
4	(Bit 2)	Status of INFO 3.
8	(Bit 3)	Status of INFO 0R.
16	(Bit 4)	Status of INFO 2.
32	(Bit 5)	Status of INFO 4.
64	(Bit 6)	S11 is 1.
128	(Bit 7)	S12 is 1.
256	(Bit 8)	S13 is 1.
512	(Bit 9)	S14 is 1.
1024	(Bit 10)	Q11 is 1.
2048	(Bit 11)	Q12 is 1.
4096	(Bit 12)	Q13 is 1.
8192	(Bit 13)	Q14 is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the SALarm3 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm3:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:SALarm3?

< 1

#### :STATus:QUEStionable:TELecom:MONitor:SALarm3:CONDITION?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SALarm3 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm3:CONDITION?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:MONitor:SALarm3:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the SALarm3 summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the SALarm3 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm3:ENABLE 3

### :STATus:QUEStionable:TELecom:MONitor:SALarm3:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm3:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:MONitor:SALarm3:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
SALarm3 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of SALarm3 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm3:PTRansition 1

### :STATus:QUEStionable:TELecom:MONitor:SALarm3:PTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm3:PTRansition?  
< 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm3:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit  
of SALarm3 Condition Register changes from 1 to 0, a 1 is written into the  
corresponding bit of SALarm3 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm3:NTRansition 2

### **:STATus:QUEStionable:TELecom:MONitor:SALarm3:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm3:NTRansition?  
< 2

**<SALarm4 Status Register>**

Indicates the results of monitoring signal lines for G.704/I.431 1.544M, G.704/I.431 2.048M, 2M CMI, and G.704 6.312M.

**:STATus:QUEStionable:TELecom:MONitor:SALarm4[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	SGA is 1.
2	(Bit 1)	SGB is 1.
4	(Bit 2)	SGC is 1.
8	(Bit 3)	SGD is 1.
16	(Bit 4)	SA4 is 1.
32	(Bit 5)	SA5 is 1.
64	(Bit 6)	SA6 is 1.
128	(Bit 7)	SA7 is 1.
256	(Bit 8)	SA8 is 1.
512	(Bit 9)	SIG is 1.
1024	(Bit 10)	X1 is 1.
2048	(Bit 11)	X2 is 1.
4096	(Bit 12)	X3 is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the SALarm4 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm4:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:SALarm4?

< 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm4:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SALarm4 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm4:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm4:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 It reports the status of Event Enable Register corresponding to the mask, in  
                 the SALarm4 summary bit.  
                 When the bit of Event Enable Register is set to 1 and the corresponding  
                 Event Bit is true, the SALarm4 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
                 > :STATus:QUEStionable:TELecom:MONitor:SALarm4:ENABLE 3

### **:STATus:QUEStionable:TELecom:MONitor:SALarm4:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm4:ENABLE?  
                 < 3

### **:STATus:QUEStionable:TELecom:MONitor:SALarm4:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 SALarm4 Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of SALarm4 Event Register.
- [Example use] To set bit 0:  
                 > :STATus:QUEStionable:TELecom:MONitor:SALarm4:PTRansition 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm4:PTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Positive Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm4:PTRansition?  
           < 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm4:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
     Sets the total of the value that the position of each bit to be set represents.  
     To set all bits to be false, set 0.  
 [Function] Sets Negative Transition Filter.  
     When the bit of Negative Transition Filter is set and the corresponding bit of SALarm4 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of SALarm4 Event Register.  
 [Example use] To set bit 1:  
           > :STATus:QUEStionable:TELecom:MONitor:SALarm4:NTRansition 2

**:STATus:QUEStionable:TELecom:MONitor:SALarm4:NTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Negative Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm4:NTRansition?  
           < 2

## SECTION 6 REMOTE COMMANDS

### <SALarm5 Status Register>

Indicates the status of alarm occurrence.

#### :STATus:QUEStionable:TELecom:MONitor:SALarm5[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	LOS occurred.
2	(Bit 1)	AIS occurred.
4	(Bit 2)	XL occurred.
8	(Bit 3)	XA occurred.
16	(Bit 4)	PFA occurred.
32	(Bit 5)	LOF occurred.
64	(Bit 6)	MF Loss occurred.
128	(Bit 7)	Status of FA bit.
256	(Bit 8)	RAI occurred.
512	(Bit 9)	E1 is 1.
1024	(Bit 10)	Si1 is 1.
2048	(Bit 11)	E2 is 1.
4096	(Bit 12)	Si2 is 1.
8192	(Bit 13)	Y is 1.
16384	(Bit 14)	SA occurred.

The response is the total of the value represented by the position of each bit being set

[Function] Queries the content of the Event register in the SALarm5 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm5:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:SALarm5?

< 1

#### :STATus:QUEStionable:TELecom:MONitor:SALarm5:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SALarm5 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm5:CONDition?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:MONitor:SALarm5:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the SALarm5 summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the SALarm5 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm5:ENABLE 3

### :STATus:QUEStionable:TELecom:MONitor:SALarm5:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm5:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:MONitor:SALarm5:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
SALarm5 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of SALarm5 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm5:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm5:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm5:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:MONitor:SALarm5:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of SALarm5 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of SALarm5 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm5:NTRansition 2

### **:STATus:QUEStionable:TELecom:MONitor:SALarm5:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm5:NTRansition?  
< 2

**<COMMON Status Register>**

Indicates the status of alarm occurrence.

**:STATus:QUEStionable:TELecom:MONitor:COMMON[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The specified time slot in Tx line is ALL1.
2	(Bit 1)	The specified time slot in Tx line is ALL0.
4	(Bit 2)	OPD occurred in Tx line.
8	(Bit 3)	FLGL occurred in Tx line.
16	(Bit 4)	The specified time slot in Rx line is ALL1.
32	(Bit 5)	The specified time slot in Rx line is ALL0.
64	(Bit 6)	OPD occurred in Rx line.
128	(Bit 7)	FLGL occurred in Rx line.
256	(Bit 8)	Waiting for PVC confirm procedure to be established.
512	(Bit 9)	PSL occurred in Rx line.
1024	(Bit 10)	FECN occurred in Rx line.
2048	(Bit 11)	BECN occurred in Rx line.
4096	(Bit 12)	CLLM occurred in Rx line.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the COMMON status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:COMMON:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:COMMON?

< 1

**:STATus:QUEStionable:TELecom:MONitor:COMMON:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the COMMON status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:COMMON:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:MONitor:COMMON:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the COMMON summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the COMMON summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:MONitor:COMMON:ENABLE 3

### :STATus:QUEStionable:TELecom:MONitor:COMMON:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:COMMON:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:MONitor:COMMON:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
COMMON Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of COMMON Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:COMMON:PTRansition 1

**:STATus:QUEStionable:TELecom:MONitor:COMMON:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:COMMON:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:MONitor:COMMON:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of COMMON Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of COMMON Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:MONitor:COMMON:NTRansition 2

**:STATus:QUEStionable:TELecom:MONitor:COMMON:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:COMMON:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <SAAlarm6 Status Register>

Indicates the result of signal line monitor at G.704/I.431 1.544M, 2M CMI,  
G.704 6.312M.

### :STATus:QUEStionable:TELecom:MONitor:SAAlarm6[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	ST bit1 is 1.
2	(Bit 1)	ST bit2 is 1.
4	(Bit 2)	ST bit3 is 1.
8	(Bit 3)	ST bit4 is 1.
16	(Bit 4)	ST bit5 is 1.
32	(Bit 5)	ST bit6 is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the SAAlarm6 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SAAlarm6:EVENT?

or

> :STATus:QUEStionable:TELecom:MONitor:SAAlarm6?

< 1

### :STATus:QUEStionable:TELecom:MONitor:SAAlarm6:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the SAAlarm6 status register.

[Example use] > :STATus:QUEStionable:TELecom:MONitor:SAAlarm6:CONDition?

< 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm6:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the SALarm6 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the SALarm6 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:MONitor:SALarm6:ENABLE 3

**:STATus:QUEStionable:TELecom:MONitor:SALarm6:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm6:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:MONitor:SALarm6:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  SALarm6 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of SALarm6 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:MONitor:SALarm6:PTRansition 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm6:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm6:PTRansition?  
 < 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm6:NTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Negative Transition Filter.  
                 When the bit of Negative Transition Filter is set and the corresponding bit  
                 of SALarm6 Condition Register changes from 1 to 0, a 1 is written into the  
                 corresponding bit of SALarm6 Event Register.
- [Example use] To set bit 1:  
                 > :STATus:QUEStionable:TELecom:MONitor:SALarm6:NTRansition 2

### **:STATus:QUEStionable:TELecom:MONitor:SALarm6:NTRansition?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm6:NTRansition?  
                 < 2

**<SALarm7 Status Register>**

Indicates the status of alarm occurrence in the alarm monitor.

**:STATus:QUEStionable:TELecom:MONitor:SALarm7[:EVENt]?**

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> 1 (Bit 0) ST LOF occurred. 2 (Bit 1) HG AIS occurred. 4 (Bit 2) BAIS occurred. The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Event register in the SALarm7 status register.
[Example use]	> :STATus:QUEStionable:TELecom:MONitor:SALarm7:EVENt? or > :STATus:QUEStionable:TELecom:MONitor:SALarm7? < 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm7:CONDition?**

[Parameter]	None
[Response]	<numeric>=<NR1 NUMERIC RESPONSE DATA> The response is the total of the value represented by the position of each bit being set.
[Function]	Queries the content of the Condition register in the SALarm7 status register.
[Example use]	> :STATus:QUEStionable:TELecom:MONitor:SALarm7:CONDition? < 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm7:ENABLE <numeric>**

[Parameter]	<numeric>=<DECIMAL NUMERIC PROGRAM DATA> Sets the total of the value that the position of each bit to be set represents. To set all bits to be false, set 0.
[Function]	Sets the mask of Event Enable Register. The status of Event Enable Register corresponding to the mask is reported to the SALarm7 summary bit. When the bit of Event Enable Register is 1 and the corresponding Event Bit is true, the SALarm7 summary bit becomes true.
[Example use]	To set bits 0 and 1: > :STATus:QUEStionable:TELecom:MONitor:SALarm7:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:MONitor:SALarm7:ENABLE?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm7:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:MONitor:SALarm7:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of SALarm7 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of SALarm7 Event Register.  
[Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:MONitor:SALarm7:PTRansition 1

### **:STATus:QUEStionable:TELecom:MONitor:SALarm7:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm7:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:MONitor:SALarm7:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
                  When the bit of Negative Transition Filter is set and the corresponding bit  
                  of SALarm7 Condition Register changes from 1 to 0, a 1 is written into the  
                  corresponding bit of SALarm7 Event Register.
- [Example use] To set bit 1:  
                  > :STATus:QUEStionable:TELecom:MONitor:SALarm7:NTRansition 2

**:STATus:QUEStionable:TELecom:MONitor:SALarm7:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:MONitor:SALarm7:NTRansition?  
                  < 2

## SECTION 6 REMOTE COMMANDS

### <CONnection Status Register>

Indicates the status of being called and calling of ISDN.

#### :STATus:QUEStionable:TELecom:CONNnection[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Data being connected.
2	(Bit 1)	Data not being connected.
4	(Bit 2)	Data being calling.
8	(Bit 3)	Data being called.
16	(Bit 4)	Not Used
32	(Bit 5)	Not Used
64	(Bit 6)	Voice being connected.
128	(Bit 7)	Voice not being connected.
256	(Bit 8)	Voice being calling.
512	(Bit 9)	Voice being called.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the CONNnection status register.

[Example use] > :STATus:QUEStionable:EVENT?

or

> :STATus:QUEStionable?

< 9

#### :STATus:QUEStionable:TELecom:CONNnection:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the CONNnection status register.

[Example use] > :STATus:QUEStionable:CONDition?

< 9

**:STATus:QUEStionable:TELecom:CONNnection:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  It reports the status of Event Enable Register corresponding to the mask, in  
                  the CONNnection summary bit.  
                  When the bit of Event Enable Register is set to 1 and the corresponding  
                  Event Bit is true, the CONNnection summary bit becomes true.
- [Example use] To set bits 1 and 2:  
 > :STATus:QUEStionable:TELecom:CONNnection:ENABLE 5

**:STATus:QUEStionable:TELecom:CONNnection:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:CONNnection:ENABLE?  
 < 5

**:STATus:QUEStionable:TELecom:CONNnection:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  CONNnection Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of CONNnection Event Register.
- [Example use] To set bits 2 and 8:  
 > :STATus:QUEStionable:TELecom:CONNnection:PTRansition 260

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:CONNnection:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:CONNnection:PTRansition?  
< 260

### **:STATus:QUEStionable:TELecom:CONNnection:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of CONNnection Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of CONNnection Event Register.  
[Example use] To set bits 3 and 9:  
> :STATus:QUEStionable:TELecom:CONNnection:NTRansition 520

### **:STATus:QUEStionable:TELecom:CONNnection:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:CONNnection:NTRansition?  
< 520

**<TXCas Status Register>**

Supplies a summary of TXSBit\* Status Register. (\* = 1 to 10)

**:STATus:QUEStionable:TELecom:TXCas[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	TXSBit1 Status Register Summary
2	(Bit 1)	TXSBit2 Status Register Summary
4	(Bit 2)	TXSBit3 Status Register Summary
8	(Bit 3)	TXSBit4 Status Register Summary
16	(Bit 4)	TXSBit5 Status Register Summary
32	(Bit 5)	TXSBit6 Status Register Summary
64	(Bit 6)	TXSBit7 Status Register Summary
128	(Bit 7)	TXSBit8 Status Register Summary
256	(Bit 8)	TXSBit9 Status Register Summary
512	(Bit 9)	TXSBit10 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXCas status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas?

< 1

**:STATus:QUEStionable:TELecom:TXCas:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXCas status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXCas summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXCas summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXCas Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXCas Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:TXCas:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXCas Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXCas Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXSBit1 Status Register>

Indicates the result of signaling bit monitor (channels 01 to 03 of the Tx line).

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit1[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH01 SgA of Tx line is 1.
2	(Bit 1)	CH01 SgB of Tx line is 1.
4	(Bit 2)	CH01 SgC of Tx line is 1.
8	(Bit 3)	CH01 SgD of Tx line is 1.
16	(Bit 4)	CH02 SgA of Tx line is 1.
32	(Bit 5)	CH02 SgB of Tx line is 1.
64	(Bit 6)	CH02 SgC of Tx line is 1.
128	(Bit 7)	CH02 SgD of Tx line is 1.
256	(Bit 8)	CH03 SgA of Tx line is 1.
512	(Bit 9)	CH03 SgB of Tx line is 1.
1024	(Bit 10)	CH03 SgC of Tx line is 1.
2048	(Bit 11)	CH03 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of Event register in the TXSBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit1?

< 1

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit1:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit1:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXSBit1 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXSBit1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:ENABLE 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit1:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit1:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXSBit1 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXSBit1 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit1:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit1:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit1 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of TXSBit1 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit1:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit1:NTTransit?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit1:NTTransit?  
< 2

**<TXSBit2 Status Register>**

Indicates the result of the signaling bit monitor (channels 04 to 06 of Tx line).

**:STATus:QUEStionable:TELecom:TXCas:TXSBit2[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH04 SgA of Tx line is 1.
2	(Bit 1)	CH04 SgB of Tx line is 1.
4	(Bit 2)	CH04 SgC of Tx line is 1.
8	(Bit 3)	CH04 SgD of Tx line is 1.
16	(Bit 4)	CH05 SgA of Tx line is 1.
32	(Bit 5)	CH05 SgB of Tx line is 1.
64	(Bit 6)	CH05 SgC of Tx line is 1.
128	(Bit 7)	CH05 SgD of Tx line is 1.
256	(Bit 8)	CH06 SgA of Tx line is 1.
512	(Bit 9)	CH06 SgB of Tx line is 1.
1024	(Bit 10)	CH06 SgC of Tx line is 1.
2048	(Bit 11)	CH06 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit2:EVENt?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit2?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit2:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register of TXSBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit2:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:TXSBit2:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit2 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit2 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit2:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit2:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit2:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit2:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit2 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit2 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit2:PTRansition 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit2:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit2:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit2 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit2:NTRansition 2

**:STATus:QUEStionable:TELecom:TXCas:TXSBit2:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit2:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXSBit3 Status Register>

Indicates the result of the signaling bit monitor (channels 07 to 09 of Tx line).

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit3[:EVENt]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH07 SgA of Tx line is 1.
2	(Bit 1)	CH07 SgB of Tx line is 1.
4	(Bit 2)	CH07 SgC of Tx line is 1.
8	(Bit 3)	CH07 SgD of Tx line is 1.
16	(Bit 4)	CH08 SgA of Tx line is 1.
32	(Bit 5)	CH08 SgB of Tx line is 1.
64	(Bit 6)	CH08 SgC of Tx line is 1.
128	(Bit 7)	CH08 SgD of Tx line is 1.
256	(Bit 8)	CH09 SgA of Tx line is 1.
512	(Bit 9)	CH09 SgB of Tx line is 1.
1024	(Bit 10)	CH09 SgC of Tx line is 1.
2048	(Bit 11)	CH09 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit3:EVENt?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit3?

< 1

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit3:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit3:CONDition?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXCas:TXSBit3:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit3 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit3 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit3:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit3:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit3:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit3:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit3 Condition Register changes 0 to 1, a 1 is written into the  
corresponding bit of TXSBit3 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit3:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit3:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit3:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit3:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit3 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit3 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit3:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit3:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit3:NTRansition?  
< 2

**<TXSBit4 Status Register>**

Indicates the result of the signaling bit monitor (channels 10 to 12 of Tx line).

**:STATus:QUEStionable:TELecom:TXCas:TXSBit4[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH10 SgA of Tx line is 1.
2	(Bit 1)	CH10 SgB of Tx line is 1.
4	(Bit 2)	CH10 SgC of Tx line is 1.
8	(Bit 3)	CH10 SgD of Tx line is 1.
16	(Bit 4)	CH11 SgA of Tx line is 1.
32	(Bit 5)	CH11 SgB of Tx line is 1.
64	(Bit 6)	CH11 SgC of Tx line is 1.
128	(Bit 7)	CH11 SgD of Tx line is 1.
256	(Bit 8)	CH12 SgA of Tx line is 1.
512	(Bit 9)	CH12 SgB of Tx line is 1.
1024	(Bit 10)	CH12 SgC of Tx line is 1.
2048	(Bit 11)	CH12 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register of in the TXSBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit4:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit4?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit4:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit4:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit4 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit4 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit4:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit4:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit4 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit4 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit4:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:PTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit4:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit4 Condition Register changed from 1 to 0, a 1 is written into the corresponding bit of TXSBit4 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit4:NTRansition 2

### :STATus:QUEStionable:TELecom:TXCas:TXSBit4:NTRansition?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit4:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXSBit5 Status Register>

Indicates the result of the signaling bit monitor (channels 13 to 15 of Tx line).

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit5[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH13 SgA of Tx line is 1.
2	(Bit 1)	CH13 SgB of Tx line is 1.
4	(Bit 2)	CH13 SgC of Tx line is 1.
8	(Bit 3)	CH13 SgD of Tx line is 1.
16	(Bit 4)	CH14 SgA of Tx line is 1.
32	(Bit 5)	CH14 SgB of Tx line is 1.
64	(Bit 6)	CH14 SgC of Tx line is 1.
128	(Bit 7)	CH14 SgD of Tx line is 1.
256	(Bit 8)	CH15 SgA of Tx line is 1.
512	(Bit 9)	CH15 SgB of Tx line is 1.
1024	(Bit 10)	CH15 SgC of Tx line is 1.
2048	(Bit 11)	CH15 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit5:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit5?

< 1

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit5:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit5:CONDition?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXCas:TXSBit5:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit5 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit5 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit5:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit5:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit5:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit5:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit5 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit5 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit5:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit5:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit5:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit5:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit5 Condition Register changed from 1 to 0, a 1 is written into the corresponding bit of TXSBit5 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit5:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit5:NTTransition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit5:NTTransition?  
< 2

**<TXSBit6 Status Register>**

Indicates the result of the signaling bit monitor (channels 16 to 18 of Tx line).

**:STATus:QUEStionable:TELecom:TXCas:TXSBit6[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH16 SgA of Tx line is 1.
2	(Bit 1)	CH16 SgB of Tx line is 1.
4	(Bit 2)	CH16 SgC of Tx line is 1.
8	(Bit 3)	CH16 SgD of Tx line is 1.
16	(Bit 4)	CH17 SgA of Tx line is 1.
32	(Bit 5)	CH17 SgB of Tx line is 1.
64	(Bit 6)	CH17 SgC of Tx line is 1.
128	(Bit 7)	CH17 SgD of Tx line is 1.
256	(Bit 8)	CH18 SgA of Tx line is 1.
512	(Bit 9)	CH18 SgB of Tx line is 1.
1024	(Bit 10)	CH18 SgC of Tx line is 1.
2048	(Bit 11)	CH18 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit6:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit6?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit6:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit6:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:TXSBit6:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit6 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit6 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit6:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit6:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit6:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit6:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit6 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit6 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit6:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit6:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit6:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit6:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit6 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit6 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit6:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit6:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit6:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXSBit7 Status Register>

Indicates the result of the signaling bit monitor (channels 19 to 21 of Tx line).

#### :STATus:QUESTIONable:TELEcom:TXCas:TXSBit7[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH19 SgA of Tx line is 1.
2	(Bit 1)	CH19 SgB of Tx line is 1.
4	(Bit 2)	CH19 SgC of Tx line is 1.
8	(Bit 3)	CH19 SgD of Tx line is 1.
16	(Bit 4)	CH20 SgA of Tx line is 1.
32	(Bit 5)	CH20 SgB of Tx line is 1.
64	(Bit 6)	CH20 SgC of Tx line is 1.
128	(Bit 7)	CH20 SgD of Tx line is 1.
256	(Bit 8)	CH21 SgA of Tx line is 1.
512	(Bit 9)	CH21 SgB of Tx line is 1.
1024	(Bit 10)	CH21 SgC of Tx line is 1.
2048	(Bit 11)	CH21 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit7 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXCas:TXSBit7:EVENT?

or

> :STATus:QUESTIONable:TELEcom:TXCas:TXSBit7?

< 1

#### :STATus:QUESTIONable:TELEcom:TXCas:TXSBit7:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit7 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXCas:TXSBit7:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit7:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXSBit7 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXSBit7 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit7:ENABLE 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit7:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit7:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit7:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXSBit7 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXSBit7 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit7:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit7:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit7:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit7:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit7 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit7 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit7:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit7:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit7:NTRansition?  
< 2

**<TXSBit8 Status Register>**

Indicates the result of the signaling bit monitor (channels 22 to 24 of Tx line).

**:STATus:QUEStionable:TELecom:TXCas:TXSBit8[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH22 SgA of Tx line is 1.
2	(Bit 1)	CH22 SgB of Tx line is 1.
4	(Bit 2)	CH22 SgC of Tx line is 1.
8	(Bit 3)	CH22 SgD of Tx line is 1.
16	(Bit 4)	CH23 SgA of Tx line is 1.
32	(Bit 5)	CH23 SgB of Tx line is 1.
64	(Bit 6)	CH23 SgC of Tx line is 1.
128	(Bit 7)	CH23 SgD of Tx line is 1.
256	(Bit 8)	CH24 SgA of Tx line is 1.
512	(Bit 9)	CH24 SgB of Tx line is 1.
1024	(Bit 10)	CH24 SgC of Tx line is 1.
2048	(Bit 11)	CH24 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit8:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit8?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit8:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit8:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:TXSBit8:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit8 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit8 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit8:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit8:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit8:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit8:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit8 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit8 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit8:PTRansition 1

**:STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:PTRansition?  
< 1

**:STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit8 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit8 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:NTRansition 2

**:STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXCas:TXSBit8:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXSBit9 Status Register>

Indicates the result of the signaling bit monitor (channels 25 to 27 of Tx line).

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit9[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH25 SgA of Tx line is 1.
2	(Bit 1)	CH25 SgB of Tx line is 1.
4	(Bit 2)	CH25 SgC of Tx line is 1.
8	(Bit 3)	CH25 SgD of Tx line is 1.
16	(Bit 4)	CH26 SgA of Tx line is 1.
32	(Bit 5)	CH26 SgB of Tx line is 1.
64	(Bit 6)	CH26 SgC of Tx line is 1.
128	(Bit 7)	CH26 SgD of Tx line is 1.
256	(Bit 8)	CH27 SgA of Tx line is 1.
512	(Bit 9)	CH27 SgB of Tx line is 1.
1024	(Bit 10)	CH27 SgC of Tx line is 1.
2048	(Bit 11)	CH27 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit9?

< 1

#### :STATus:QUEStionable:TELecom:TXCas:TXSBit9:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit9:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXSBit9 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXSBit9 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:ENABLE 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit9:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXCas:TXSBit9:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXSBit9 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXSBit9 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit9:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit9:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit9 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit9 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit9:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit9:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit9:NTRansition?  
< 2

**<TXSBit10 Status Register>**

Indicates the result of the signaling bit monitor (channels 28 to 30 of Tx line).

**:STATus:QUEStionable:TELecom:TXCas:TXSBit10[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH28 SgA of Tx line is 1.
2	(Bit 1)	CH28 SgB of Tx line is 1.
4	(Bit 2)	CH28 SgC of Tx line is 1.
8	(Bit 3)	CH28 SgD of Tx line is 1.
16	(Bit 4)	CH29 SgA of Tx line is 1.
32	(Bit 5)	CH29 SgB of Tx line is 1.
64	(Bit 6)	CH29 SgC of Tx line is 1.
128	(Bit 7)	CH29 SgD of Tx line is 1.
256	(Bit 8)	CH30 SgA of Tx line is 1.
512	(Bit 9)	CH30 SgB of Tx line is 1.
1024	(Bit 10)	CH30 SgC of Tx line is 1.
2048	(Bit 11)	CH30 SgD of Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXSBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit10:EVENT?

or

> :STATus:QUEStionable:TELecom:TXCas:TXSBit10?

< 1

**:STATus:QUEStionable:TELecom:TXCas:TXSBit10:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXSBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit10:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXCas:TXSBit10:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXSBit10 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXSBit10 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit10:ENABLE 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit10:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit10:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXCas:TXSBit10:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXSBit10 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXSBit10 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit10:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit10:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit10:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit10:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXSBit10 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXSBit10 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXCas:TXSBit10:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXCas:TXSBit10:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXCas:TXSBit10:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXCas Status Register>

Supplies the summary of RXSBit\* Status Register. (\* = 1 to 10)

#### :STATus:QUEStionable:TELecom:RXCas[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	RXSBit1 Status Register Summary
2	(Bit 1)	RXSBit2 Status Register Summary
4	(Bit 2)	RXSBit3 Status Register Summary
8	(Bit 3)	RXSBit4 Status Register Summary
16	(Bit 4)	RXSBit5 Status Register Summary
32	(Bit 5)	RXSBit6 Status Register Summary
64	(Bit 6)	RXSBit7 Status Register Summary
128	(Bit 7)	RXSBit8 Status Register Summary
256	(Bit 8)	RXSBit9 Status Register Summary
512	(Bit 9)	RXSBit10 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXCas status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas?

< 1

#### :STATus:QUEStionable:TELecom:RXCas:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXCas status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:CONDition?

< 1

**:STATus:QUEStionable:TELecom:RXCas:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXCas summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXCas summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXCas:ENABLE 3

**:STATus:QUEStionable:TELecom:RXCas:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXCas:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXCas Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of RXCas Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXCas:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXCas Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXCas Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:NTRansition?  
< 2

**<RXSBit1 Status Register>**

Indicates the result of the signaling bit monitor (channels 01 to 03 in Rx line).

**:STATus:QUEStionable:TELecom:RXCas:RXSBit1[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH01 SgA in Rx line is 1.
2	(Bit 1)	CH01 SgB in Rx line is 1.
4	(Bit 2)	CH01 SgC in Rx line is 1.
8	(Bit 3)	CH01 SgD in Rx line is 1.
16	(Bit 4)	CH02 SgA in Rx line is 1.
32	(Bit 5)	CH02 SgB in Rx line is 1.
64	(Bit 6)	CH02 SgC in Rx line is 1.
128	(Bit 7)	CH02 SgD in Rx line is 1.
256	(Bit 8)	CH03 SgA in Rx line is 1.
512	(Bit 9)	CH03 SgB in Rx line is 1.
1024	(Bit 10)	CH03 SgC in Rx line is 1.
2048	(Bit 11)	CH03 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit1?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit1:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXCas:RXSBit1:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit1 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit1:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit1:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit1:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit1 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit1:PTRansition 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit1:PTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Positive Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:PTRansition?  
                 <1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit1:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
     Sets the total of the value that the position of each bit to be set represents.  
     To set all bits to be false, set 0.  
 [Function] Sets Negative Transition Filter.  
     When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit1 Event Register.  
 [Example use] To set bit 1:  
                 > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:NTRansition 2

**:STATus:QUEStionable:TELecom:RXCas:RXSBit1:NTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Negative Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit1:NTRansition?  
                 <2

## SECTION 6 REMOTE COMMANDS

### <RXSBit2 Status Register>

Indicates the result of the signaling bit monitor (channels 04 to 06 in Rx line).

### :STATus:QUEStionable:TELecom:RXCas:RXSBit2[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH04 SgA in Rx line is 1.
2	(Bit 1)	CH04 SgB in Rx line is 1.
4	(Bit 2)	CH04 SgC in Rx line is 1.
8	(Bit 3)	CH04 SgD in Rx line is 1.
16	(Bit 4)	CH05 SgA in Rx line is 1.
32	(Bit 5)	CH05 SgB in Rx line is 1.
64	(Bit 6)	CH05 SgC in Rx line is 1.
128	(Bit 7)	CH05 SgD in Rx line is 1.
256	(Bit 8)	CH06 SgA in Rx line is 1.
512	(Bit 9)	CH06 SgB in Rx line is 1.
1024	(Bit 10)	CH06 SgC in Rx line is 1.
2048	(Bit 11)	CH06 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit2?

< 1

### :STATus:QUEStionable:TELecom:RXCas:RXSBit2:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:CONDition?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit2:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXSBit2 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXSBit2 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:ENABLE 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit2:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function]    Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit2:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXSBit2 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of RXSBit2 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit2:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit2 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit2:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit2:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit2:NTRansition?  
< 2

**<RXSBit3 Status Register>**

Indicates the result of the signaling bit monitor (channels 07 to 09 in Rx line).

**:STATus:QUEStionable:TELecom:RXCas:RXSBit3[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH07 SgA in Rx line is 1.
2	(Bit 1)	CH07 SgB in Rx line is 1.
4	(Bit 2)	CH07 SgC in Rx line is 1.
8	(Bit 3)	CH07 SgD in Rx line is 1.
16	(Bit 4)	CH08 SgA in Rx line is 1.
32	(Bit 5)	CH08 SgB in Rx line is 1.
64	(Bit 6)	CH08 SgC in Rx line is 1.
128	(Bit 7)	CH08 SgD in Rx line is 1.
256	(Bit 8)	CH09 SgA in Rx line is 1.
512	(Bit 9)	CH09 SgB in Rx line is 1.
1024	(Bit 10)	CH09 SgC in Rx line is 1.
2048	(Bit 11)	CH09 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit3:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit3?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit3:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit3:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXCas:RXSBit3:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit3 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit3 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit3:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit3:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit3:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit3:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit3 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit3 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit3:PTRansition 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit3:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit3:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit3:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit3 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit3 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit3:NTRansition 2

**:STATus:QUEStionable:TELecom:RXCas:RXSBit3:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit3:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXSBit4 Status Register>

Indicates the result of the signaling bit monitor (channels 10 to 12 in Rx line).

### :STATus:QUEStionable:TELecom:RXCas:RXSBit4[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH10 SgA in Rx line is 1.
2	(Bit 1)	CH10 SgB in Rx line is 1.
4	(Bit 2)	CH10 SgC in Rx line is 1.
8	(Bit 3)	CH10 SgD in Rx line is 1.
16	(Bit 4)	CH11 SgA in Rx line is 1.
32	(Bit 5)	CH11 SgB in Rx line is 1.
64	(Bit 6)	CH11 SgC in Rx line is 1.
128	(Bit 7)	CH11 SgD in Rx line is 1.
256	(Bit 8)	CH12 SgA in Rx line is 1.
512	(Bit 9)	CH12 SgB in Rx line is 1.
1024	(Bit 10)	CH12 SgC in Rx line is 1.
2048	(Bit 11)	CH12 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit4?

< 1

### :STATus:QUEStionable:TELecom:RXCas:RXSBit4:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:CONDition?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit4:ENABLE <numeric>**

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      Sets the total of the value that the position of each bit to be set  
                      represents.  
                      To set all bits to be false, set 0.
- [Function]        Sets the mask of Event Enable Register.  
                      The status of Event Enable Register corresponding to the mask is reported  
                      to the RXSBit4 summary bit.  
                      When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                      is true, the RXSBit4 summary bit becomes true.
- [Example use]     To set bits 0 and 1:  
                      > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:ENABLE 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit4:ENABLE?**

- [Parameter]       None
- [Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                      The response is the total of the value represented by the position of each  
                      bit being set.
- [Function]        Queries the current setting of the mask of Event Enable Register.
- [Example use]     > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:ENABLE?  
                      < 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit4:PTRansition <numeric>**

- [Parameter]       <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                      Sets the total of the value that the position of each bit to be set  
                      represents.  
                      To set all bits to be false, set 0.
- [Function]        Sets Positive Transition Filter.  
                      When the bit of Positive Transition Filter is set and the corresponding bit of  
                      RXSBit4 Condition Register changes from 0 to 1, a 1 is written into the  
                      corresponding bit of RXSBit4 Event Register.
- [Example use]     To set bit 0:  
                      > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit4:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit4:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit4 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit4 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit4:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit4:NTTransit?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit4:NTTransit?  
< 2

**<RXSBit5 Status Register>**

Indicates the result of the signaling bit monitor (channels 13 to 15 in Rx line).

**:STATus:QUEStionable:TELecom:RXCas:RXSBit5[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH13 SgA in Rx line is 1.
2	(Bit 1)	CH13 SgB in Rx line is 1.
4	(Bit 2)	CH13 SgC in Rx line is 1.
8	(Bit 3)	CH13 SgD in Rx line is 1.
16	(Bit 4)	CH14 SgA in Rx line is 1.
32	(Bit 5)	CH14 SgB in Rx line is 1.
64	(Bit 6)	CH14 SgC in Rx line is 1.
128	(Bit 7)	CH14 SgD in Rx line is 1.
256	(Bit 8)	CH15 SgA in Rx line is 1.
512	(Bit 9)	CH15 SgB in Rx line is 1.
1024	(Bit 10)	CH15 SgC in Rx line is 1.
2048	(Bit 11)	CH15 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit5:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit5?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit5:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit5:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit5 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit5 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit5:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit5:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit5 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit5 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit5:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:PTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit5:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the Negative Transition Filter is set and the corresponding bit of RXSBit5 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit5 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit5:NTRansition 2

### :STATus:QUEStionable:TELecom:RXCas:RXSBit5:NTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit5:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXSBit6 Status Register>

Indicates the result of the signaling bit monitor (channels 16 to 18 in Rx line).

### :STATus:QUEStionable:TELecom:RXCas:RXSBit6[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH16 SgA in Rx line is 1.
2	(Bit 1)	CH16 SgB in Rx line is 1.
4	(Bit 2)	CH16 SgC in Rx line is 1.
8	(Bit 3)	CH16 SgD in Rx line is 1.
16	(Bit 4)	CH17 SgA in Rx line is 1.
32	(Bit 5)	CH17 SgB in Rx line is 1.
64	(Bit 6)	CH17 SgC in Rx line is 1.
128	(Bit 7)	CH17 SgD in Rx line is 1.
256	(Bit 8)	CH18 SgA in Rx line is 1.
512	(Bit 9)	CH18 SgB in Rx line is 1.
1024	(Bit 10)	CH18 SgC in Rx line is 1.
2048	(Bit 11)	CH18 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit6:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit6?

< 1

### :STATus:QUEStionable:TELecom:RXCas:RXSBit6:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit6:CONDition?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXCas:RXSBit6:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit6 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit6 summary bit become true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit6:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit6:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit6:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit6:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit6 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit6 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit6:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit6:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit6:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit6:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit6 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit6 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit6:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit6:NTTransit?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit6:NTTransit?  
< 2

**<RXSBit7 Status Register>**

Indicates the result of the signaling bit monitor (channels 19 to 21 in Rx line).

**:STATus:QUEStionable:TELecom:RXCas:RXSBit7[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH19 SgA in Rx line is 1.
2	(Bit 1)	CH19 SgB in Rx line is 1.
4	(Bit 2)	CH19 SgC in Rx line is 1.
8	(Bit 3)	CH19 SgD in Rx line is 1.
16	(Bit 4)	CH20 SgA in Rx line is 1.
32	(Bit 5)	CH20 SgB in Rx line is 1.
64	(Bit 6)	CH20 SgC in Rx line is 1.
128	(Bit 7)	CH20 SgD in Rx line is 1.
256	(Bit 8)	CH21 SgA in Rx line is 1.
512	(Bit 9)	CH21 SgB in Rx line is 1.
1024	(Bit 10)	CH21 SgC in Rx line is 1.
2048	(Bit 11)	CH21 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit7:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit7?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit7:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit7:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:RXCas:RXSBit7:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit7 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit7 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit7:ENABLE 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit7:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit7:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit7:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit7 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit7 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit7:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit7:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit7:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit7:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit7 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit7 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit7:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit7:NTAnsition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit7:NTAnsition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXSBit8 Status Register>

Indicates the result of the signaling bit monitor (channels 22 to 24 in Rx line).

#### :STATus:QUEStionable:TELecom:RXCas:RXSBit8[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH22 SgA in Rx line is 1.
2	(Bit 1)	CH22 SgB in Rx line is 1.
4	(Bit 2)	CH22 SgC in Rx line is 1.
8	(Bit 3)	CH22 SgD in Rx line is 1.
16	(Bit 4)	CH23 SgA in Rx line is 1.
32	(Bit 5)	CH23 SgB in Rx line is 1.
64	(Bit 6)	CH23 SgC in Rx line is 1.
128	(Bit 7)	CH23 SgD in Rx line is 1.
256	(Bit 8)	CH24 SgA in Rx line is 1.
512	(Bit 9)	CH24 SgB in Rx line is 1.
1024	(Bit 10)	CH24 SgC in Rx line is 1.
2048	(Bit 11)	CH24 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit8?

< 1

#### :STATus:QUEStionable:TELecom:RXCas:RXSBit8:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:CONDition?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit8:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXSBit8 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXSBit8 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:ENABLE 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit8:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXCas:RXSBit8:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXSBit8 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of RXSBit8 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit8:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit8:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit8 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit8 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit8:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit8:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit8:NTRansition?  
< 2

**<RXSBit9 Status Register>**

Indicates the result of the signaling bit monitor (channels 25 to 27 in Rx line).

**:STATus:QUEStionable:TELecom:RXCas:RXSBit9[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH25 SgA in Rx line is 1.
2	(Bit 1)	CH25 SgB in Rx line is 1.
4	(Bit 2)	CH25 SgC in Rx line is 1.
8	(Bit 3)	CH25 SgD in Rx line is 1.
16	(Bit 4)	CH26 SgA in Rx line is 1.
32	(Bit 5)	CH26 SgB in Rx line is 1.
64	(Bit 6)	CH26 SgC in Rx line is 1.
128	(Bit 7)	CH26 SgD in Rx line is 1.
256	(Bit 8)	CH27 SgA in Rx line is 1.
512	(Bit 9)	CH27 SgB in Rx line is 1.
1024	(Bit 10)	CH27 SgC in Rx line is 1.
2048	(Bit 11)	CH27 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit9:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit9?

< 1

**:STATus:QUEStionable:TELecom:RXCas:RXSBit9:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit9:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXCas:RXSBit9:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit9 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit9 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit9:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit9:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit9:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit9:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit9 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit9 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit9:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit9:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit9:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit9:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit9 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit9 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit9:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit9:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit9:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXSBit10 Status Register>

Indicates the result of the signaling bit monitor (channels 28 to 30 in Rx line).

#### :STATus:QUEStionable:TELecom:RXCas:RXSBit10[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	CH28 SgA in Rx line is 1.
2	(Bit 1)	CH28 SgB in Rx line is 1.
4	(Bit 2)	CH28 SgC in Rx line is 1.
8	(Bit 3)	CH28 SgD in Rx line is 1.
16	(Bit 4)	CH29 SgA in Rx line is 1.
32	(Bit 5)	CH29 SgB in Rx line is 1.
64	(Bit 6)	CH29 SgC in Rx line is 1.
128	(Bit 7)	CH29 SgD in Rx line is 1.
256	(Bit 8)	CH30 SgA in Rx line is 1.
512	(Bit 9)	CH30 SgB in Rx line is 1.
1024	(Bit 10)	CH30 SgC in Rx line is 1.
2048	(Bit 11)	CH30 SgD in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXSBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit10:EVENT?

or

> :STATus:QUEStionable:TELecom:RXCas:RXSBit10?

< 1

#### :STATus:QUEStionable:TELecom:RXCas:RXSBit10:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXSBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit10:CONDition?

< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXCas:RXSBit10:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXSBit10 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXSBit10 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit10:ENABLE 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit10:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit10:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXCas:RXSBit10:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXSBit10 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXSBit10 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit10:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit10:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit10:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit10:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXSBit10 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXSBit10 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXCas:RXSBit10:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXCas:RXSBit10:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXCas:RXSBit10:NTRansition?  
< 2

**<TXFas1 Status Register>**

Supplies the summary of TXFBit\* Status Register. (\* = 0 to 14)

**:STATus:QUEStionable:TELecom:TXFas1[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	TXFBit0 Status Register Summary
2	(Bit 1)	TXFBit1 Status Register Summary
4	(Bit 2)	TXFBit2 Status Register Summary
8	(Bit 3)	TXFBit3 Status Register Summary
16	(Bit 4)	TXFBit4 Status Register Summary
32	(Bit 5)	TXFBit5 Status Register Summary
64	(Bit 6)	TXFBit6 Status Register Summary
128	(Bit 7)	TXFBit7 Status Register Summary
256	(Bit 8)	TXFBit8 Status Register Summary
512	(Bit 9)	TXFBit9 Status Register Summary
1024	(Bit 10)	TXFBit10 Status Register Summary
2048	(Bit 11)	TXFBit11 Status Register Summary
4096	(Bit 12)	TXFBit12 Status Register Summary
8192	(Bit 13)	TXFBit13 Status Register Summary
16384	(Bit 14)	TXFBit14 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFas1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:EVENt?

or

> :STATus:QUEStionable:TELecom:TXFas1?

< 1

**:STATus:QUEStionable:TELecom:TXFas1:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFas1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas1:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status Event Enable Register corresponding to the mask is reported to  
the TXFas1 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFas1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFas1 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFas1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:PTRansition 1

**:STATus:QUESTIONable:TELEcom:TXFas1:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:PTRansition?  
< 1

**:STATus:QUESTIONable:TELEcom:TXFas1:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFas1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFas1 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas1:NTRansition 2

**:STATus:QUESTIONable:TELEcom:TXFas1:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit0 Status Register>

Indicates the result of the frame bit monitor (frame 0 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit0[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Frame 0 bit 1 in Tx line is 1.
2	(Bit 1)	Frame 0 bit 2 in Tx line is 1.
4	(Bit 2)	Frame 0 bit 3 in Tx line is 1.
8	(Bit 3)	Frame 0 bit 4 in Tx line is 1.
16	(Bit 4)	Frame 0 bit 5 in Tx line is 1.
32	(Bit 5)	Frame 0 bit 6 in Tx line is 1.
64	(Bit 6)	Frame 0 bit 7 in Tx line is 1.
128	(Bit 7)	Frame 0 bit 8 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit0 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit0?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit0 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBIt0 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBIt0 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBIt0 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBIt0 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt0:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit0:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit0:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit0 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit0 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit0:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit0:NTRansition?  
< 2

**<TXFBit1 Status Register>**

Indicates the result of the frame bit monitor (frame 1 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit1[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Frame 1 bit 1 in Tx line is 1.
2	(Bit 1)	Frame 1 bit 2 in Tx line is 1.
4	(Bit 2)	Frame 1 bit 3 in Tx line is 1.
8	(Bit 3)	Frame 1 bit 4 in Tx line is 1.
16	(Bit 4)	Frame 1 bit 5 in Tx line is 1.
32	(Bit 5)	Frame 1 bit 6 in Tx line is 1.
64	(Bit 6)	Frame 1 bit 7 in Tx line is 1.
128	(Bit 7)	Frame 1 bit 8 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit1:EVENt?

or

> :STATus:QUEStionable:TELecom:TXFas1:TXFBit1?

<1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit1:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit1:CONDition?

<1

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBIt1 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event bit  
is true, the TXFBIt1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBIt1 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBIt1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt1:PTRansition 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit1:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit1:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit1:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit1 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit1:NTRansition 2

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit1:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit1:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit2 Status Register>

Indicates the result of the frame bit monitor (frame 2 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit2[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Frame 2 bit 1 in Tx line is 1.
2	(Bit 1)	Frame 2 bit 2 in Tx line is 1.
4	(Bit 2)	Frame 2 bit 3 in Tx line is 1.
8	(Bit 3)	Frame 2 bit 4 in Tx line is 1.
16	(Bit 4)	Frame 2 bit 5 in Tx line is 1.
32	(Bit 5)	Frame 2 bit 6 in Tx line is 1.
64	(Bit 6)	Frame 2 bit 7 in Tx line is 1.
128	(Bit 7)	Frame 2 bit 8 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:EVENT?

or

> :STATus:QUEStionable:TELecom:TXFas1:TXFBit2?

< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit2 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit2 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit2 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit2 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit2 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit2:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit2:NTRansition?  
< 2

**<TXFBit3 Status Register>**

Indicates the result of frame bit monitor (frame 3 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit3[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 3 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 3 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 3 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 3 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 3 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 3 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 3 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 3 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit3?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit3:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit3 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit3 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit3 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit3 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit3:PTRansition 1

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:PTRansition?  
< 1

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit3 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit3 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:NTRansition 2

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit3:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit4 Status Register>

Indicates the result of frame bit monitor (frame 4 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit4[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 4 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 4 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 4 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 4 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 4 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 4 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 4 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 4 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit4?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register of the TXFBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit4 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit4 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit4 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit4 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit4:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit4:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit4 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit4 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit4:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit4:NTRansition?  
< 2

**<TXFBit5 Status Register>**

Indicates the result of frame bit monitor (frame 5 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit5[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 5 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 5 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 5 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 5 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 5 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 5 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 5 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 5 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit5:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit5?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit5:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit5:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBIt5 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBIt5 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBIt5 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBIt5 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt5:PTRansition 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit5:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit5:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit5:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit5 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit5 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit5:NTRansition 2

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit5:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit5:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit6 Status Register>

Indicates the result of frame bit monitor (frame 6 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit6[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 6 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 6 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 6 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 6 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 6 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 6 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 6 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 6 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit6?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBIt6 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBIt6 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBIt6 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBIt6 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt6:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit6:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit6:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit6 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit6 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit6:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit6:NTRansition?  
< 2

**<TXFBit7 Status Register>**

Indicates the result of frame bit monitor (frame 7 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit7[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 7 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 7 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 7 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 7 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 7 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 7 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 7 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 7 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit7:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit7?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit7:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit7:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit7:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit7 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit7 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit7:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit7:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit7:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit7:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit7 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit7 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit7:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:PTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:PTRansition?  
< 1

### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:NTRansition <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit7 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of TXFBit7 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:NTRansition 2

### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit7:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit8 Status Register>

Indicates the result of frame bit monitor (frame 8 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit8[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 8 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 8 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 8 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 8 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 8 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 8 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 8 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 8 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit8?

< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:CONDition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit8:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit8 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit8 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit8:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit8:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit8 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit8 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit8:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBIt8 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBIt8 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt8:NTRansition?  
< 2

**<TXFBit9 Status Register>**

Indicates the result of frame bit monitor (frame 9 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit9[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 9 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 9 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 9 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 9 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 9 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 9 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 9 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 9 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit9:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit9?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit9:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit9:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBIt9 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the Event Bit summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBIt9 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBIt9 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBIt9:PTRansition 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit9:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit9:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit9:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit9 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit9 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit9:NTRansition 2

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit9:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit9:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit10 Status Register>

Indicates the result of frame bit monitor (frame 10 in Tx line).

#### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit10[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 10 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 10 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 10 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 10 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 10 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 10 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 10 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 10 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit10 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit10:EVENT?

or

> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit10?

< 1

#### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit10:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit10 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit10:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit10 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit10 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:ENABLE?  
 <3

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit10 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit10 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit10 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit10 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit10:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit10:NTRansition?  
< 2

**<TXFBit11 Status Register>**

Indicates the result of frame bit monitor (frame 11 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit11[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 11 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 11 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 11 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 11 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 11 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 11 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 11 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 11 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit11 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:EVENt?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit11?  
<1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit11:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit11 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:CONDition?  
<1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit11 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit11 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit11 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit11 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:PTRansition 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit11:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit11:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit11 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit11 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:NTRansition 2

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit11:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit11:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit12 Status Register>

Indicates the result of frame bit monitor (frame 12 in Tx line).

#### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 12 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 12 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 12 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 12 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 12 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 12 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 12 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 12 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit12 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:EVENT?  
or  
> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12?  
< 1

#### :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit12 status register.

[Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit12 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit12 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit12 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit12 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit12:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:PTRansition?  
< 1

### **:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit12 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit12 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:NTRansition 2

### **:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit12:NTRansition?  
< 2

**<TXFBit13 Status Register>**

Indicates the result of frame bit monitor (frame 13 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit13[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 13 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 13 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 13 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 13 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 13 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 13 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 13 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 13 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit13 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit13?  
< 1

**:STATus:QUEStionable:TELecom:TXFas1:TXFBit13:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit13 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit13 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit13 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit13 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit13 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit13:PTRansition 1

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:PTRansition?  
<1

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit13 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit13 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:NTRansition 2

**:STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUESTIONable:TELEcom:TXFas1:TXFBit13:NTRansition?  
<2

## SECTION 6 REMOTE COMMANDS

### <TXFBit14 Status Register>

Indicates the result of frame bit monitor (frame 14 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit14[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 14 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 14 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 14 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 14 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 14 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 14 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 14 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 14 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit14 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:EVENt?  
or  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit14?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit14 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit14 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit14 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit14 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit14 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit14:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit14:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit14 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit14 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas1:TXFBit14:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas1:TXFBit14:NTRansition?  
< 2

**<TXFas2 Status Register>**

Supplies TXFBit\* Status Register summary, etc. (\* = 15 to 19)

**:STATus:QUEStionable:TELecom:TXFas2[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	TXFBit15 Status Register Summary
2	(Bit 1)	TXFBit16 Status Register Summary
4	(Bit 2)	TXFBit17 Status Register Summary
8	(Bit 3)	TXFBit18 Status Register Summary
16	(Bit 4)	TXFBit19 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFas2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:EVENT?

or

> :STATus:QUEStionable:TELecom:TXFas2?

< 1

**:STATus:QUEStionable:TELecom:TXFas2:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFas2 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXFas2:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

The status of Event Enable Register corresponding to the mask is reported to the TXFas2 summary bit.

When the bit of Event Enable Register is 1 and the corresponding Event Bit is true, the TXFas2 summary bit becomes true.

[Example use] To set bits 0 and 1:

> :STATus:QUEStionable:TELecom:TXFas2:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas2:ENABLE?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current mask setting of Event Enable Register.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:TXFas2:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of TXFas2 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of TXFas2 Event Register.  
[Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas2:PTRansition 1

### **:STATus:QUEStionable:TELecom:TXFas2:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFas2 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of TXFas2 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas2:NTRansition 2

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas2:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit15 Status Register>

Indicates the result of frame bit monitor (frame 15 in Tx line).

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit15[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 15 in Tx line is 1.
2	(Bit 1)	Bit 2 of frame 15 in Tx line is 1.
4	(Bit 2)	Bit 3 of frame 15 in Tx line is 1.
8	(Bit 3)	Bit 4 of frame 15 in Tx line is 1.
16	(Bit 4)	Bit 5 of frame 15 in Tx line is 1.
32	(Bit 5)	Bit 6 of frame 15 in Tx line is 1.
64	(Bit 6)	Bit 7 of frame 15 in Tx line is 1.
128	(Bit 7)	Bit 8 of frame 15 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit15 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:EVENt?  
or  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit15?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit15 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:CONDition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit15 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit15 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit15 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit15 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit15 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit15 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit15:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit15:NTRansition?  
< 2

**<TXFBit16 Status Register>**

Indicates the result of frame bit monitor (frames 16 to 24 in Tx line).

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit16[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 16 in Tx line is 1.
2	(Bit 1)	Bit 1 of frame 17 in Tx line is 1.
4	(Bit 2)	Bit 1 of frame 18 in Tx line is 1.
8	(Bit 3)	Bit 1 of frame 19 in Tx line is 1.
16	(Bit 4)	Bit 1 of frame 20 in Tx line is 1.
32	(Bit 5)	Bit 1 of frame 21 in Tx line is 1.
64	(Bit 6)	Bit 1 of frame 22 in Tx line is 1.
128	(Bit 7)	Bit 1 of frame 23 in Tx line is 1.
256	(Bit 8)	Bit 1 of frame 24 in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit16 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:EVENT?

or

> :STATus:QUEStionable:TELecom:TXFas2:TXFBit16?

< 1

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit16:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit16 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit16 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit16 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit16 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit16 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:PTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:NTRansition <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit16 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of TXFBit16 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:NTRansition 2

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit16:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit17 Status Register>

Indicates the results of monitoring DL bits (upper 8 bits) in Tx line.

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit17[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The DL bit (bit 15) in Tx line is 1.
2	(Bit 1)	The DL bit (bit 14) in Tx line is 1.
4	(Bit 2)	The DL bit (bit 13) in Tx line is 1.
8	(Bit 3)	The DL bit (bit 12) in Tx line is 1.
16	(Bit 4)	The DL bit (bit 11) in Tx line is 1.
32	(Bit 5)	The DL bit (bit 10) in Tx line is 1.
64	(Bit 6)	The DL bit (bit 9) in Tx line is 1.
128	Bit 7	The DL bit (bit 8) in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit17 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:EVENt?  
or  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit17?  
< 1

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit17 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:CONDition?  
< 1

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit17 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit17 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit17 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit17 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit17 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit17 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit17:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit17:NTRansition?  
< 2

**<TXFBit18 Status Register>**

Indicates the results of monitoring DL bits (lower 8 bits) in Tx line.

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit18[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The DL bit (bit 7) in Tx line is 1.
2	(Bit 1)	The DL bit (bit 6) in Tx line is 1.
4	(Bit 2)	The DL bit (bit 5) in Tx line is 1.
8	(Bit 3)	The DL bit (bit 4) in Tx line is 1.
16	(Bit 4)	The DL bit (bit 3) in Tx line is 1.
32	(Bit 5)	The DL bit (bit 2) in Tx line is 1.
64	(Bit 6)	The DL bit (bit 1) in Tx line is 1.
128	(Bit 7)	The DL bit (bit 0) in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit18 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:EVENT?  
or  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit18?  
< 1

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit18:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the TXFBit18 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the TXFBit18 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the TXFBit18 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:ENABLE 3

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
TXFBit18 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of TXFBit18 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit18:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:PTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:PTRansition?  
< 1

### :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:NTRansition <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit18 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of TXFBit18 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:NTRansition 2

### :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:TXFas2:TXFBit18:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <TXFBit19 Status Register>

Indicates the results of monitoring the TS16 Frame0 bit in Tx line.

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit19[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The TS16 Frame0 bit (bit 1) in Tx line is 1.
2	(Bit 1)	The TS16 Frame0 bit (bit 2) in Tx line is 1.
4	(Bit 2)	The TS16 Frame0 bit (bit 3) in Tx line is 1.
8	(Bit 3)	The TS16 Frame0 bit (bit 4) in Tx line is 1.
16	(Bit 4)	The TS16 Frame0 bit (bit 5) in Tx line is 1.
32	(Bit 5)	The TS16 Frame0 bit (bit 6) in Tx line is 1.
64	(Bit 6)	The TS16 Frame0 bit (bit 7) in Tx line is 1.
128	(Bit 7)	The TS16 Frame0 bit (bit 8) in Tx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the TXFBit19 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:EVENt?

or

> :STATus:QUEStionable:TELecom:TXFas2:TXFBit19?

< 1

#### :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in TXFBit19 status register.

[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:CONDition?

< 1

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the TXFBit19 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the TXFBit19 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:ENABLE 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  TXFBit19 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of TXFBit19 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of TXFBit19 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of TXFBit19 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:NTRansition 2

### **:STATus:QUEStionable:TELecom:TXFas2:TXFBit19:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:TXFas2:TXFBit19:NTRansition?  
< 2

**<RXFas1 Status Register>**

Supplies RXFBit\* Status Register summary, etc. (\* = 0 to 14)

**:STATus:QUEStionable:TELecom:RXFas1[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	RXFBit0 Status Register Summary
2	(Bit 1)	RXFBit1 Status Register Summary
4	(Bit 2)	RXFBit2 Status Register Summary
8	(Bit 3)	RXFBit3 Status Register Summary
16	(Bit 4)	RXFBit4 Status Register Summary
32	(Bit 5)	RXFBit5 Status Register Summary
64	(Bit 6)	RXFBit6 Status Register Summary
128	(Bit 7)	RXFBit7 Status Register Summary
256	(Bit 8)	RXFBit8 Status Register Summary
512	(Bit 9)	RXFBit9 Status Register Summary
1024	(Bit 10)	RXFBit10 Status Register Summary
2048	(Bit 11)	RXFBit11 Status Register Summary
4096	(Bit 12)	RXFBit12 Status Register Summary
8192	(Bit 13)	RXFBit13 Status Register Summary
16384	(Bit 14)	RXFBit14 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFas1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:EVENT?

or

> :STATus:QUEStionable:TELecom:RXFas1?

< 1

**:STATus:QUEStionable:TELecom:RXFas1:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFas1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFas1 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFas1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFas1 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFas1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas1:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFas1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFas1 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit0 Status Register>

Indicates the result of frame bit monitor (frame 0 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit0[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 0 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 0 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 0 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 0 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 0 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 0 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 0 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 0 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit0 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit0?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit0 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBIt0 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBIt0 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBIt0 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBIt0 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBIt0:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit0:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit0:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit0 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit0 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit0:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit0:NTRansition?  
< 2

**<RXFBit1 Status Register>**

Indicates the result of frame bit monitor (frame 1 in Rx line).

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit1[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 1 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 1 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 1 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 1 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 1 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 1 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 1 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 1 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit1?  
< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit1:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit1 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit1 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit1 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit1 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit1 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit1:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:PTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:PTRansition?  
< 1

### :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:NTRansition <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit1 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit1 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:NTRansition 2

### :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUESTIONable:TELEcom:RXFas1:RXFBit1:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit2 Status Register>

Indicates the result of frame bit monitor (frame 2 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit2[:EVENt]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 2 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 2 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 2 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 2 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 2 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 2 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 2 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 2 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:EVENt?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit2?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:CONDition?  
< 1

## 6.8 STATus Sub-System

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 The status of Event Enable Register corresponding to the mask is reported  
                 to the RXFBIt2 summary bit.  
                 When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                 is true, the RXFBIt2 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
                 > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:ENABLE?  
                 < 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 RXFBIt2 Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of RXFBIt2 Event Register.
- [Example use] To set bit 0:  
                 > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt2:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit2:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit2 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit2 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit2:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit2:NTRansition?  
< 2

**<RXFBit3 Status Register>**

Indicates the result of frame bit monitor (frame 3 in Rx line).

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit3[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 3 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 3 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 3 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 3 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 3 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 3 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 3 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 3 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of Event register in the RXFBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:EVENt?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit3?  
< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit3:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of Condition register in the RXFBit3 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit3 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit3 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit3 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit3 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit3:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit3:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit3 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit3 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit3:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit3:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit4 Status Register>

Indicates the result of frame bit monitor (frame 4 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit4[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 4 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 4 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 4 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 4 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 4 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 4 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 4 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 4 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:EVENT?

or

> :STATus:QUEStionable:TELecom:RXFas1:RXFBit4?

< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit4 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:CONDition?

< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXFBIt4 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXFBIt4 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXFBIt4 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of RXFBIt4 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt4:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit4:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit4:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit4 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit4 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit4:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit4:NTRansition?  
< 2

**<RXFBit5 Status Register>**

Indicates the result of frame bit monitor (frame 5 in Rx line).

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit5[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 5 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 5 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 5 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 5 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 5 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 5 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 5 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 5 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit5?  
< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit5:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit5 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit5 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit5 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit5 Condition Register changes from 0 to 1, a 1 is written to the  
corresponding bit of RXFBit5 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:PTRansition 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit5:PTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Positive Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:PTRansition?  
           < 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit5:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
     Sets the total of the value that the position of each bit to be set represents.  
     To set all bits to be false, set 0.  
 [Function] Sets Negative Transition Filter.  
     When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit5 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit5 Event Register.  
 [Example use] To set bit 1:  
           > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:NTRansition 2

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit5:NTRansition?**

[Parameter] None  
 [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
     The response is the total of the value represented by the position of each bit being set.  
 [Function] Queries the current setting of Negative Transition Filter.  
 [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit5:NTRansition?  
           < 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit6 Status Register>

Indicates the result of frame bit monitor (frame 6 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit6[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 6 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 6 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 6 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 6 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 6 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 6 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 6 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 6 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit6?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit6 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:ENABLE <numeric>

- [Parameter]      <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                     Sets the total of the value that the position of each bit to be set  
                     represents.  
                     To set all bits to be false, set 0.
- [Function]        Sets the mask of Event Enable Register.  
                     The status of Event Enable Register corresponding to the masks reported to  
                     the RXFBit6 summary bit.  
                     When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                     is true, the RXFBit6 summary bit becomes true.
- [Example use]     To set bits 0 and 1:  
                     > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:ENABLE?

- [Parameter]       None
- [Response]       <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                     The response is the total of the value represented by the position of each  
                     bit being set.
- [Function]        Queries the current mask setting of Event Enable Register.
- [Example use]     > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:ENABLE?  
                     < 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:PTRansition <numeric>

- [Parameter]       <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                     Sets the total of the value that the position of each bit to be set  
                     represents.  
                     To set all bits to be false, set 0.
- [Function]        Sets Positive Transition Filter.  
                     When the bit of Positive Transition Filter is set and the corresponding bit of  
                     RXFBit6 Condition Register changes from 0 to 1, a 1 is written into the  
                     corresponding bit of RXFBit6 Event Register.
- [Example use]     To set bit 0:  
                     > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit6:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit6:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit6 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit6 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit6:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit6:NTRansition?  
< 2

**<RXFBit7 Status Register>**

Indicates the result of frame bit monitor (frame 7 in Rx line).

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit7[:EVENT?]**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 7 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 7 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 7 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 7 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 7 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 7 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 7 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 7 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit7?  
< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit7:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit7 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit7 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit7 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit7 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit7 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit7:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit7:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit7 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit7 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit7:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit7:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit8 Status Register>

Indicates the result of frame bit monitor (frame 8 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit8[:EVENt]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 8 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 8 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 8 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 8 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 8 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 8 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 8 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 8 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:EVENt?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit8?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit8 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:ENABLE <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 The status of Event Enable Register corresponding to the mask is reported  
                 to the RXFBIt8 summary bit.  
                 When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                 is true, the RXFBIt8 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:ENABLE?

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:PTRansition <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 RXFBIt8 Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of RXFBIt8 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBIt8:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit8:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit8:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit8 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit8 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit8:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit8:NTRansition?  
< 2

## 6.8 STATus Sub-System

### <RXFBit9 Status Register>

Indicates the result of frame bit monitor (frame 9 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit9[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 9 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 9 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 9 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 9 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 9 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 9 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 9 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 9 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit9?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit9 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit9 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit9 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit9 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit9 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit9 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit9 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit9:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit9:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit10 Status Register>

Indicates the result of frame bit monitor (frame 10 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit10[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 10 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 10 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 10 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 10 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 10 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 10 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 10 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 10 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:EVENt?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit10?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit10 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:ENABLE <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 The status of Event Enable Register corresponding to the mask is reported  
                 to the RXFBit10 summary bit.  
                 When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                 is true, the RXFBit10 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:ENABLE?

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:PTRansition <numeric>

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 RXFBit10 Condition Register changes from 0 to 1, a 1 is written into the  
                 corresponding bit of RXFBit10 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit10:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit10:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit10 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit10 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit10:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit10:NTRansition?  
< 2

### <RXFBit11 Status Register>

Indicates the result of frame bit monitor (frame 11 in Rx line).

#### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit11[:EVENt]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 11 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 11 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 11 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 11 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 11 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 11 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 11 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 11 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit11 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:EVENt?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit11?  
< 1

#### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit11:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit11 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit11 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit11 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit11 Condition Register changes from 0 to 1, 1 is written to the  
corresponding bit of RXFBit11 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:PTRansition 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:PTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:PTRansition?  
< 1

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:NTRansition <numeric>

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit11 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit11 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:NTRansition 2

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:NTRansition?

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit11:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit12 Status Register>

Indicates the result of frame bit monitor (frame 12 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit12[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 12 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 12 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 12 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 12 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 12 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 12 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 12 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 12 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit12 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit12?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit12 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:CONDition?  
< 1

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXFBit12 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXFBit12 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXFBit12 Condition Register changes from 0 to 1, a 1 is written to the  
                  corresponding bit of RXFBit12 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit12 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit12 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit12:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit12:NTRansition?  
< 2

### <RXFBit13 Status Register>

Indicates the result of frame bit monitor (frame 13 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit13[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 13 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 13 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 13 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 13 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 13 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 13 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 13 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 13 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of Event register in the RXFBit13 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit13?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit13 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit13 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit13 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit13 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit13 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:PTRansition 1

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit13:PTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit13:NTRansition <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit13 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit13 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit13:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit13:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit14 Status Register>

Indicates the result of frame bit monitor (frame 14 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit14[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 14 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 14 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 14 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 14 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 14 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 14 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 14 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 14 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit14 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit14?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit14 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:CONDition?  
< 1

## 6.8 STATus Sub-System

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:ENABLE <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets the mask of Event Enable Register.  
                 The status of Event Enable Register corresponding to the mask is reported  
                 to the RXFBit14 summary bit.  
                 When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                 is true, the RXFBit14 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:ENABLE?**

- [Parameter]    None
- [Response]    <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                 The response is the total of the value represented by the position of each  
                 bit being set.
- [Function]    Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:ENABLE?  
< 3

**:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:PTRansition <numeric>**

- [Parameter]    <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                 Sets the total of the value that the position of each bit to be set  
                 represents.  
                 To set all bits to be false, set 0.
- [Function]    Sets Positive Transition Filter.  
                 When the bit of Positive Transition Filter is set and the corresponding bit of  
                 RXFBit14 Condition Register is changed from 0 to 1, a 1 is written into the  
                 corresponding bit of RXFBit14 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit14 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit14 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas1:RXFBit14:NTTransit?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas1:RXFBit14:NTTransit?  
< 2

**<RXFas2 Status Register>**

Supplies RXFBit\* Status Register summary, etc. (\* = 15 to 19)

**:STATus:QUEStionable:TELecom:RXFas2[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	RXFBit15 Status Register Summary
2	(Bit 1)	RXFBit16 Status Register Summary
4	(Bit 2)	RXFBit17 Status Register Summary
8	(Bit 3)	RXFBit18 Status Register Summary
16	(Bit 4)	RXFBit19 Status Register Summary

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFas2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:EVENT?

or

> :STATus:QUEStionable:TELecom:RXFas2?

<1

**:STATus:QUEStionable:TELecom:RXFas2:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFas2 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:CONDition?

<1

**:STATus:QUEStionable:TELecom:RXFas2:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

The status of Event Enable Register corresponding to the mask is reported to the RXFas2 summary bit.

When the bit of Event Enable Register is 1 and the corresponding Event Bit is true, the RXFas2 summary bit becomes true.

[Example use] To set bits 0 and 1:

> :STATus:QUEStionable:TELecom:RXFas2:ENABLE 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas2:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:ENABLE?  
< 3

### **:STATus:QUEStionable:TELecom:RXFas2:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of RXFas2 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of RXFas2 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas2:PTRansition 1

### **:STATus:QUEStionable:TELecom:RXFas2:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas2:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFas2 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFas2 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:NTRansition 2

## 6.8 STATus Sub-System

### **:STATus:QUEStionable:TELecom:RXFas2:NTRansition?**

[Parameter]

None

[Response]

<numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function]

Queries the current setting of Negative Transition Filter.

[Example use]

> :STATus:QUEStionable:TELecom:RXFas2:NTRansition?

< 2

## SECTION 6 REMOTE COMMANDS

### <RXFB15 Status Register>

Indicates the results of frame bit monitor (frame 15 in Rx line).

#### :STATus:QUEStionable:TELecom:RXFas2:RXFB15[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 15 in Rx line is 1.
2	(Bit 1)	Bit 2 of frame 15 in Rx line is 1.
4	(Bit 2)	Bit 3 of frame 15 in Rx line is 1.
8	(Bit 3)	Bit 4 of frame 15 in Rx line is 1.
16	(Bit 4)	Bit 5 of frame 15 in Rx line is 1.
32	(Bit 5)	Bit 6 of frame 15 in Rx line is 1.
64	(Bit 6)	Bit 7 of frame 15 in Rx line is 1.
128	(Bit 7)	Bit 8 of frame 15 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFB15 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFB15:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas2:RXFB15?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas2:RXFB15:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFB15 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFB15:CONDition?  
< 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  The status of Event Enable Register corresponding to the mask is reported  
                  to the RXFBIt15 summary bit.  
                  When the bit of Event Enable Register is 1 and the corresponding Event Bit  
                  is true, the RXFBIt15 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
 > :STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:ENABLE 3

**:STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:ENABLE?  
 < 3

**:STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  RXFBIt15 Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of RXFBIt15 Event Register.
- [Example use] To set bit 0:  
 > :STATus:QUEStionable:TELecom:RXFas2:RXFBIt15:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit15:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit15:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit15:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit15 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit15 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit15:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit15:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit15:NTRansition?  
< 2

### <RXFBit16 Status Register>

Indicates the result of frame bit monitor (frames 16 to 24 in Rx line).

#### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit16[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Bit 1 of frame 16 in Rx line is 1.
2	(Bit 1)	Bit 1 of frame 17 in Rx line is 1.
4	(Bit 2)	Bit 1 of frame 18 in Rx line is 1.
8	(Bit 3)	Bit 1 of frame 19 in Rx line is 1.
16	(Bit 4)	Bit 1 of frame 20 in Rx line is 1.
32	(Bit 5)	Bit 1 of frame 21 in Rx line is 1.
64	(Bit 6)	Bit 1 of frame 22 in Rx line is 1.
128	(Bit 7)	Bit 1 of frame 23 in Rx line is 1.
256	(Bit 8)	Bit 1 of frame 24 in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit16 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:EVENT?

or

> :STATus:QUEStionable:TELecom:RXFas2:RXFBit16?

< 1

#### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit16:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit16 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:CONDition?

< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit16 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit16 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit16 Condition Register from 0 to 1, a 1 is written to the corresponding  
bit of RXFBit16 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:PTRansition 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit16:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit16:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit16 Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of RXFBit16 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:NTRansition 2

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit16:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit16:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit17 Status Register>

Indicates the results of monitoring DL bits (upper 8 bits) in Rx line.

#### :STATus:QUEStionable:TELecom:RXFas2:RXFBit17[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The DL bit (bit 15) in Rx line is 1.
2	(Bit 1)	The DL bit (bit 14) in Rx line is 1.
4	(Bit 2)	The DL bit (bit 13) in Rx line is 1.
8	(Bit 3)	The DL bit (bit 12) in Rx line is 1.
16	(Bit 4)	The DL bit (bit 11) in Rx line is 1.
32	(Bit 5)	The DL bit (bit 10) in Rx line is 1.
64	(Bit 6)	The DL bit (bit 9) in Rx line is 1.
128	(Bit 7)	The DL bit (bit 8) in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the RXFBit17 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:EVENT?  
or

> :STATus:QUEStionable:TELecom:RXFas2:RXFBit17?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit17 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported to the RXFBit17 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit is true, the RXFBit17 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of RXFBit17 Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of RXFBit17 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit17:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit17:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit17 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit17 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit17:NTTransit?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit17:NTTransit?  
< 2

**<RXFBit18 Status Register>**

Indicates the results of monitoring DL bits (lower 8 bits) in Rx line.

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit18[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The DL bit (bit 7) in Rx line is 1.
2	(Bit 1)	The DL bit (bit 6) in Rx line is 1.
4	(Bit 2)	The DL bit (bit 5) in Rx line is 1.
8	(Bit 3)	The DL bit (bit 4) in Rx line is 1.
16	(Bit 4)	The DL bit (bit 3) in Rx line is 1.
32	(Bit 5)	The DL bit (bit 2) in Rx line is 1.
64	(Bit 6)	The DL bit (bit 1) in Rx line is 1.
128	(Bit 7)	The DL bit (bit 0) in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the contents of Event register in the RXFBit18 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit18?  
< 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit18:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register of the RXFBit18 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:CONDition?  
< 1

## SECTION 6 REMOTE COMMANDS

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit18 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit18 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit18 Condition Register changes from 0 to 1, a 1 is written to the  
corresponding bit of RXFBit18 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:PTRansition 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit18:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:PTRansition?  
< 1

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit18:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit18 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit18 Event Register.
- [Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:NTRansition 2

**:STATus:QUEStionable:TELecom:RXFas2:RXFBit18:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit18:NTRansition?  
< 2

## SECTION 6 REMOTE COMMANDS

### <RXFBit19 Status Register>

Indicates the results of monitoring the TS16 Frame0 bit in Rx line.

#### :STATus:QUEStionable:TELecom:RXFas2:RXFBit19[:EVENT]?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	The TS16 Frame0 bit (bit 1) in Rx line is 1.
2	(Bit 1)	The TS16 Frame0 bit (bit 2) in Rx line is 1.
4	(Bit 2)	The TS16 Frame0 bit (bit 3) in Rx line is 1.
8	(Bit 3)	The TS16 Frame0 bit (bit 4) in Rx line is 1.
16	(Bit 4)	The TS16 Frame0 bit (bit 5) in Rx line is 1.
32	(Bit 5)	The TS16 Frame0 bit (bit 6) in Rx line is 1.
64	(Bit 6)	The TS16 Frame0 bit (bit 7) in Rx line is 1.
128	(Bit 7)	The TS16 Frame0 bit (bit 8) in Rx line is 1.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register of the RXFBit19 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:EVENT?  
or  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit19?  
< 1

#### :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the RXFBit19 status register.

[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:CONDition?  
< 1

## 6.8 STATus Sub-System

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
The status of Event Enable Register corresponding to the mask is reported  
to the RXFBit19 summary bit.  
When the bit of Event Enable Register is 1 and the corresponding Event Bit  
is true, the RXFBit19 summary bit becomes true.
- [Example use] To set bits 0 and 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:ENABLE 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current mask setting of Event Enable Register.
- [Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:ENABLE?  
< 3

### :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
RXFBit19 Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of RXFBit19 Event Register.
- [Example use] To set bit 0:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:PTRansition 1

## SECTION 6 REMOTE COMMANDS

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit19:PTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:PTRansition?  
< 1

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit19:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of RXFBit19 Condition Register changes from 1 to 0, a 1 is written to the corresponding bit of RXFBit19 Event Register.  
[Example use] To set bit 1:  
> :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:NTRansition 2

### **:STATus:QUEStionable:TELecom:RXFas2:RXFBit19:NTTransition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:QUEStionable:TELecom:RXFas2:RXFBit19:NTTransition?  
< 2

**<OPERation Status Register>**

Supplies a summary or other information of INSTRument Status Register.

**:STATus:OPERation[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

16 (Bit 4) In the middle of measuring.

8192 (Bit13) Summary of INSTRument Status Register.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the OPERation status register.

[Example use] > :STATus:OPERation:EVENT?

or

> :STATus:OPERation?

< 8192

**:STATus:OPERation:CONDITION?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the OPERation status register.

[Example use] > :STATus:OPERation:CONDITION?

< 8192

**:STATus:OPERation:ENABLE <numeric>**

[Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>

Sets the total of the value that the position of each bit to be set represents.

To set all bits to be false, set 0.

[Function] Sets the mask of Event Enable Register.

It reports the status of Event Enable Register corresponding to the mask, in the OPERation summary bit.

When the bit of Event Enable Register is set to 1 and the corresponding Event Bit is true, the OPERation summary bit becomes true.

[Example use] To set bits 4 and 13:

> :STATus:OPERation:ENABLE 8208

## SECTION 6 REMOTE COMMANDS

### :STATus:OPERation:ENABLE?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of the mask of Event Enable Register.  
[Example use] > :STATus:OPERation:ENABLE?  
< 8208

### :STATus:OPERation:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of OPERation Condition Register changes from 0 to 1, a 1 is written into the corresponding bit of OPERation Event Register.  
[Example use] To set bit 4:  
> :STATus:OPERation:PTRansition 16

### :STATus:OPERation:PTRansition?

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:OPERation:PTRansition?  
< 16

### :STATus:OPERation:NTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of OPERation Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of OPERation Event Register.  
[Example use] To set bit 13:  
> :STATus:OPERation:NTRansition 8192

## 6.8 STATus Sub-System

### **:STATus:OPERation:NTRansition?**

[Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:OPERation:NTRansition?  
<8192

## SECTION 6 REMOTE COMMANDS

### <INSTRument Status Register>

Supplies a summary of BATTery Status Register and displays log or other information.

### :STATus:OPERation:INSTRument[:EVENT?]

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	Logging log full.
2	(Bit 1)	Logging log empty.
4	(Bit 2)	Histogram log full.
8	(Bit 3)	Histogram log empty.
16	(Bit 4)	1 second cycle
32	(Bit 5)	Selftest completed.
64	(Bit 6)	Printing Print Now.
128	(Bit 7)	Printer error
256	(Bit 8)	Indicates printing timing in the middle of printer.
512	(Bit 9)	Summary of BATTery Status Register.

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the INSTRument status register.

[Example use] > :STATus:OPERation:INSTRument:EVENT?

or

> :STATus:OPERation:INSTRument?

< 9

### :STATus:OPERation:INSTRument:CONDition?

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the INSTRument status register.

[Example use] > :STATus:OPERation:INSTRument:CONDition?

< 9

**:STATus:OPERation:INSTRument:ENABLE <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
                  It reports the status of Event Enable Register corresponding to the mask, in  
                  the INSTRument summary bit.  
                  When the bit of Event Enable Register is set to 1 and the corresponding  
                  Event Bit is true, the INSTRument summary bit becomes true.
- [Example use] To set bits 1 and 2:  
                  > :STATus:OPERation:INSTRument:ENABLE 5

**:STATus:OPERation:INSTRument:ENABLE?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
                  The response is the total of the value represented by the position of each  
                  bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:OPERation:INSTRument:ENABLE?  
                  <5

**:STATus:OPERation:INSTRument:PTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
                  Sets the total of the value that the position of each bit to be set  
                  represents.  
                  To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
                  When the bit of Positive Transition Filter is set and the corresponding bit of  
                  INSTRument Condition Register changes from 0 to 1, a 1 is written into the  
                  corresponding bit of INSTRument Event Register.
- [Example use] To set bits 0 and 1:  
                  > :STATus:OPERation:INSTRument:PTRansition 3

## SECTION 6 REMOTE COMMANDS

### **:STATus:OPERation:INSTRument:PTRansition ?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Positive Transition Filter.  
[Example use] > :STATus:OPERation:INSTRument:PTRansition?  
< 3

### **:STATus:OPERation:INSTRument:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.  
[Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of INSTRument Condition Register changes from 1 to 0, a 1 is written into the corresponding bit of INSTRument Event Register.  
[Example use] To set bits 2 and 3:  
> :STATus:OPERation:INSTRument:NTRansition 12

### **:STATus:OPERation:INSTRument:NTRansition?**

- [Parameter] None  
[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.  
[Function] Queries the current setting of Negative Transition Filter.  
[Example use] > :STATus:OPERation:INSTRument:NTRansition?  
< 12

**<BATTerY Status Register>**

Displays the status of battery.

**:STATus:OPERation:INSTRument:BATTerY[:EVENT]?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

1	(Bit 0)	No battery
2	(Bit 1)	Temperature alarm
4	(Bit 2)	Battery failure
8	(Bit 3)	Charging
16	(Bit 4)	Needs charging.
32	(Bit 5)	Discharging or full charging

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Event register in the BATTerY status register.

[Example use] > :STATus:OPERation:INSTRument:BATTerY:EVENT?

or

> :STATus:OPERation:INSTRument:BATTerY?

< 9

**:STATus:OPERation:INSTRument:BATTerY:CONDition?**

[Parameter] None

[Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>

The response is the total of the value represented by the position of each bit being set.

[Function] Queries the content of the Condition register in the BATTerY status register.

[Example use] > :STATus:OPERation:INSTRument:BATTerY:CONDition?

< 9

## SECTION 6 REMOTE COMMANDS

### :STATus:OPERation:INSTRument:BATTery:ENABLE <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets the mask of Event Enable Register.  
It reports the status of Event Enable Register corresponding to the mask, in  
the BATTery summary bit.  
When the bit of Event Enable Register is set to 1 and the corresponding  
Event Bit is true, the BATTery summary bit becomes true.
- [Example use] To set bits 1 and 2:  
> :STATus:OPERation:INSTRument:BATTery:ENABLE 6

### :STATus:OPERation:INSTRument:BATTery:ENABLE?

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each  
bit being set.
- [Function] Queries the current setting of the mask of Event Enable Register.
- [Example use] > :STATus:OPERation:INSTRument:BATTery:ENABLE?  
< 6

### :STATus:OPERation:INSTRument:BATTery:PTRansition <numeric>

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set  
represents.  
To set all bits to be false, set 0.
- [Function] Sets Positive Transition Filter.  
When the bit of Positive Transition Filter is set and the corresponding bit of  
BATTery Condition Register changes from 0 to 1, a 1 is written into the  
corresponding bit of BATTery Event Register.
- [Example use] To set bits 0 and 1:  
> :STATus:OPERation:INSTRument:BATTery:PTRansition 3

**:STATus:OPERation:INSTRument:BATTery:PTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Positive Transition Filter.
- [Example use] > :STATus:OPERation:INSTRument:BATTery:PTRansition?  
< 3

**:STATus:OPERation:INSTRument:BATTery:NTRansition <numeric>**

- [Parameter] <numeric>=<DECIMAL NUMERIC PROGRAM DATA>  
Sets the total of the value that the position of each bit to be set represents.  
To set all bits to be false, set 0.
- [Function] Sets Negative Transition Filter.  
When the bit of Negative Transition Filter is set and the corresponding bit of BATTery Condition Register changes from 1 to 0, 1 is written into the corresponding bit of BATTery Event Register.
- [Example use] To set bits 2 and 3:  
> :STATus:OPERation:INSTRument:BATTery:NTRansition 12

**:STATus:OPERation:INSTRument:BATTery:NTRansition?**

- [Parameter] None
- [Response] <numeric>=<NR1 NUMERIC RESPONSE DATA>  
The response is the total of the value represented by the position of each bit being set.
- [Function] Queries the current setting of Negative Transition Filter.
- [Example use] > :STATus:OPERation:INSTRument:BATTery:NTRansition?  
< 12

## **SECTION 6 REMOTE COMMANDS**

## **SECTION 7 STATUS REPORT**

## SECTION 7 STATUS REPORT

### 7.1 MD6430A Status Register Configuration

SCPI stipulates that the status register configuration should follow the configuration regulated in IEEE488.2, and should have a SCPI-specific OPERATION status register and QUESTIONable status register.

The following shows a brief configuration chart of the status registers installed in the MD6430A. (Read the following descriptions for the bit location and bit width.)

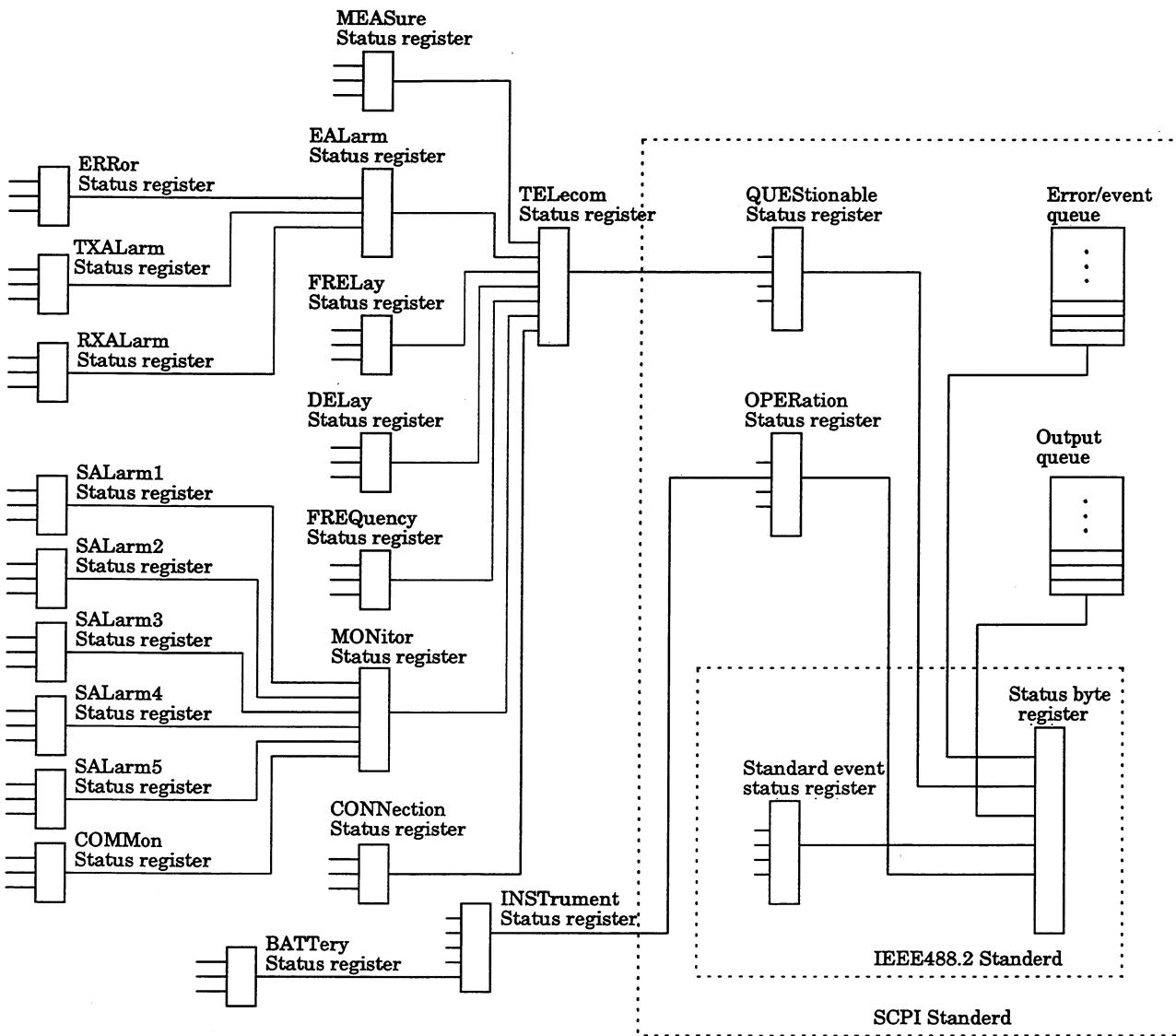


Fig. 7.1-1 MD6430A Status Register Configuration Chart

IEEE488.2 standard register ··· Standard event register, Status byte register

SCPI standard register ······ QUEStionable status register, OPERATION status register

Device-specific register ······ TELecom, INSTRument, MEASure, EALarm, ERRor, TXALarm, RXALarm, FRELay, DELay, FREQuency, MONitor, SALarm1, SALarm2, SALarm3, SALarm4, SALarm5, COMMON, CONNnection, BATTery

## 7.1 MD6430A Status Register Configuration

The SCPI status register and device-specific status register have the following configuration.

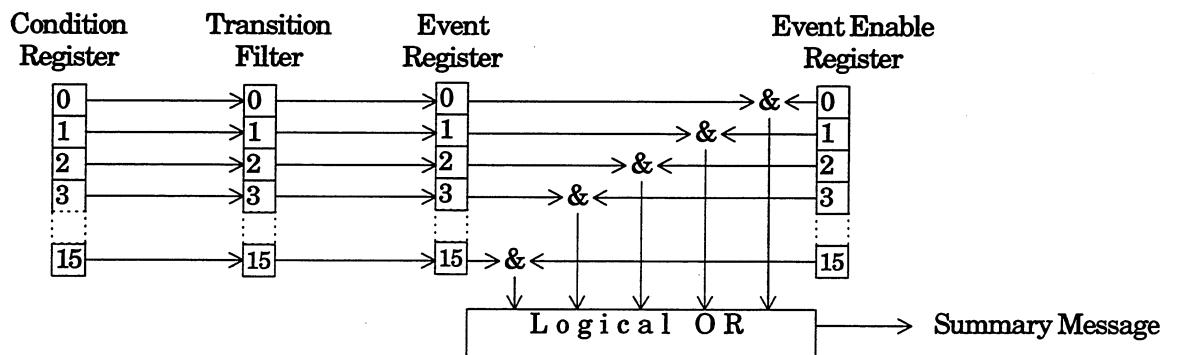


Fig. 7.1-2 Status Register Configuration

Table 7.1-1 Register File Description

Register filter	Description
Condition Register	Monitors the device state and changes the contents at real time depending on the device state. Thus, this register does not memory the device state data.
Transition Filter	Sets the contents of Condition Register to Event Register. Transition filter supports the following three types depending on which change of Condition Register is to be evaluated, as described below:  Change in the positive direction: An event becomes true only when the corresponding condition changes from false to true.  Change in the negative direction: An event becomes true only when the corresponding condition changes from true to false.  Bidirectional change: An event becomes true when the corresponding condition changes either in the positive or negative direction.
Event Register	Memories the output of Transition Filter.
Event Enable Register	Selects the bits of the Event Register, which turn the summary message true when set.

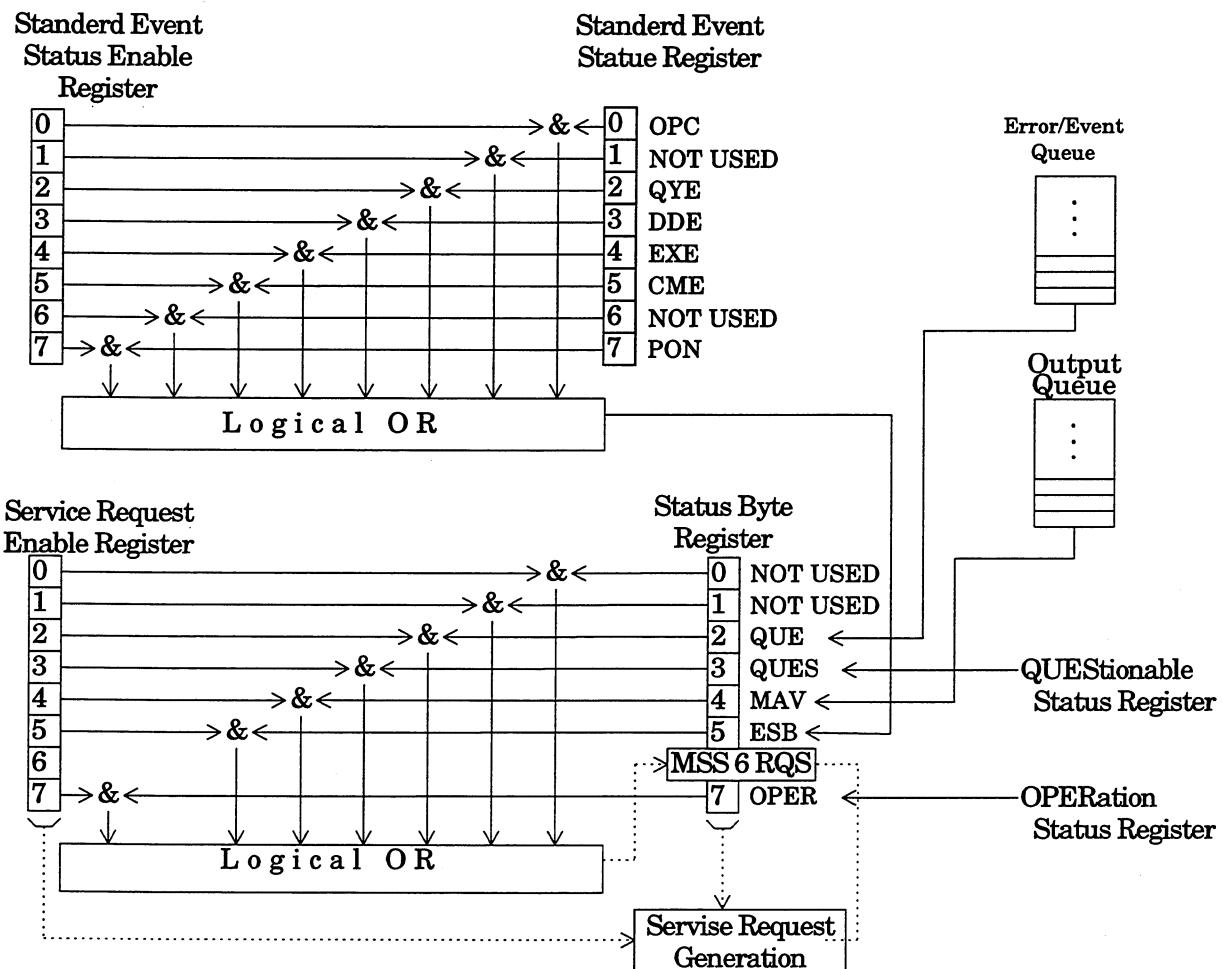
## SECTION 7 STATUS REPORT

### 7.2 IEEE488.2 Standard Status Register

The IEEE488.2 stipulates the following two status registers.

**Table 7.2-1 Register File Description**

Status byte register	Can set RQS and seven bits of summary message. Used in conjunction with the service request enable register, and turns on the SRQ bit when the logicalOR of both registers is not 0. The RQS bit is reserved in bit 6, which is used to report a service request to the external controller.
Standard event status register	Sets eight events (which occur in the device) in the register as the standard events. The logicalOR output bit is summarized and displayed in bit 5 of the status byte register as the ESB (Event Status Bit) summary message.



**Fig. 7.2-1 IEEE488.2 Status Register**

**Table 7.2-2 Bit Definition of Status Byte Register**

<b>Bit</b>	<b>Mnemonic</b>	<b>Description</b>
DB2	QUE (Error/Event QUEue)	Indicates that Error or Event Queue is not empty.
DB3	QUES (QUEStionable status register summary)	QUEStionable status register summary
DB4	MAV (Message Available)	Indicates that the output queue is not empty.
DB5	ESB (Event Summary Bit)	Standard event status summary
DB6	RQS (ReQuest Service) MSS (Master Summary Status)	RQS message Indicates that the device has at least one cause to request a service.
DB7	OPER (OPERation status register summary)	OPERation status register summary

**Table 7.2-3 Bit Definition of Standard Event Status Register**

<b>Bit</b>	<b>Mnemonic</b>	<b>Description</b>
DB0	OPC (OPeration Complete)	Indicates that all the specified operations are completed.
DB2	QYE (QuerY Error)	Indicates that a query error occurred.
DB3	DDE (Device-dependent Error)	Indicates that an error other than command error, query error and execution error occurred.
DB4	EXE (EXecution Error)	Indicates that an execution error occurred.
DB5	CME (CoMmand Error)	Indicates that a command error occurred.
DB7	PON (Power ON)	Indicates that the power tuned from OFF to ON.

## SECTION 7 STATUS REPORT

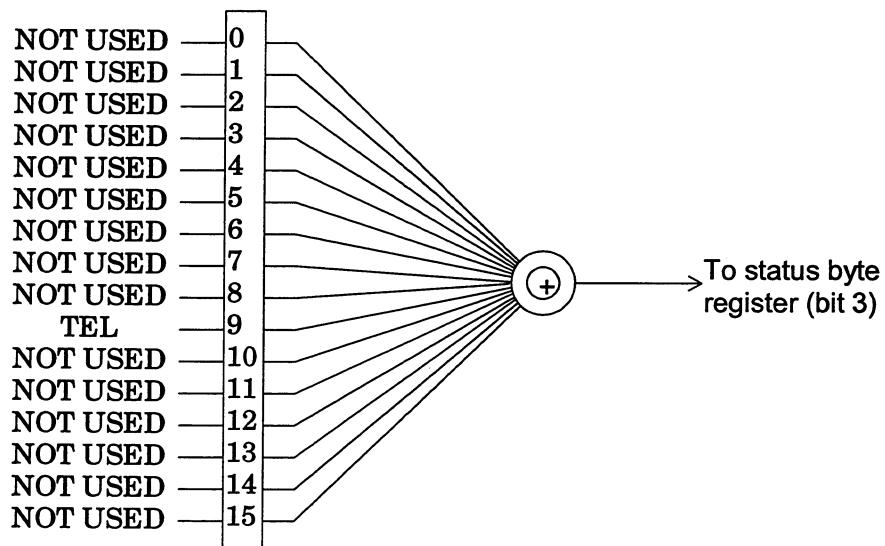
### 7.3 SCPI-Standard Status Register

In accordance with SCPI standard, the following registers are contained in the configuration in addition to the status registers stipulated in IEEE488.2.

**Table 7.3-1 SCPI Status Register Description**

OPEration status register	Reports a part of the device state. Used when waiting for a process which requires long time to be completed, such as Error/Alarm measurements.
QUEStionable status register	Reports the signal state of measured results etc.. Used when requesting a service to the controller at occurrence of error etc..

#### ■ QUEStionable status register



**Fig. 7.3-1 QUEStionable Status Register**

**Table 7.3-2 Bit Definition of QUEStionable Status Byte Register**

Bit	Mnemonic	Description
DB9	TEL (TELecom status register summary)	TELecom status register summary

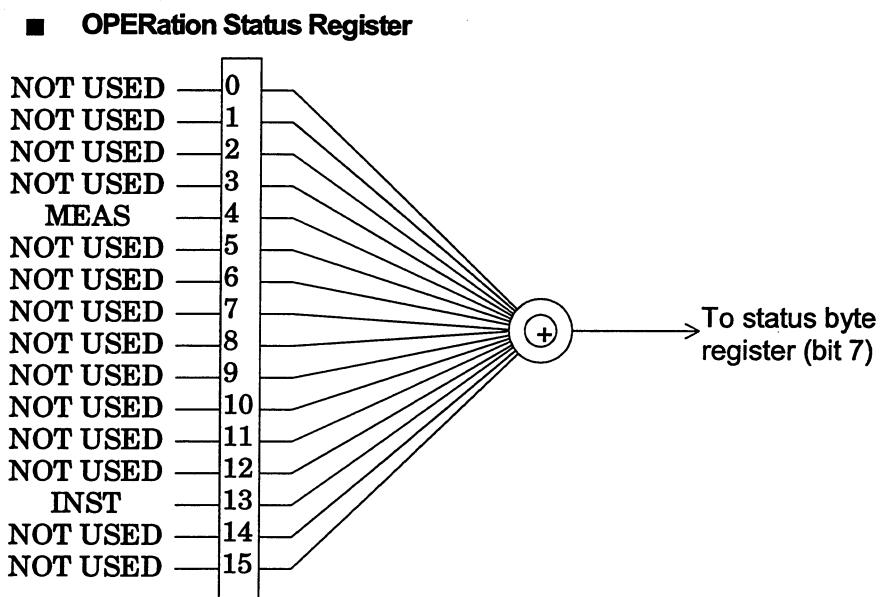


Fig. 7.3-2 OPERation Status Register

Table 7.3-3 Bit Definition of OPERation Status Register

Bit	Mnemonic	Description
DB4	MEAS (MEASuring)	Indicates that Measuring now.
DB13	INST (INSTRument status register summary)	INSTRument status register summary

## SECTION 7 STATUS REPORT

### 7.4 MD6430A-Specific Status Register

In addition to IEEE488.2 status registers and SCPI status registers, the MD6430A-specific status registers are configured in the system.

**Table 7.4-1 MD6430A-Specific Status Register Description (1/2)**

TELecom Status Register	Reports the signal state and includes the lower level summary messages.
MEASure Status Register	Reports the measurement state.
EALarm Status Register	Reports the signal Alarm state and includes the lower level summary messages.
ERRor Status Register	Reports the signal Error state.
TXALarm Status Register	Reports the transmission line Alarm state.
RXALarm Status Register	Reports the reception line Alarm state.
FRELay	Reports the Frame Relay measurement state.
DELay	Reports the Delay measurement state.
FREQuency	Reports the Frequency measurement state.
MONitor	Reports the signal-line/alarm monitor states and includes the lower level summary messages.
SALarm1	Reports the V-series signal line monitor states.
SALarm2	Reports the X-series signal line monitor states.
SALarm3	Reports the I.430 signal line monitor states.
SALarm4	Reports the G.704 and 2M CMI signal line monitor states.
SALarm5	Reports the Alarm monitor state.
COMMON	Reports the Alarm monitor state.
SALarm6	Reports the G.704 and 2M CMI signal line monitor states.
SALarm7	Reports the Alarm monitor state.
CONNnection Status Register	Reports the ISDN connection state.
TXCas Status Register	Reports the transmission line signaling bit monitor states and includes the lower level summary messages.
TXSBit1 to 10 Status Register	Reports the transmission line signaling bit monitor states.
RXCas Status Register	Reports the reception line signaling bit monitor states and includes the lower level summary messages.
RXSBit1 to 10 Status Register	Reports the reception line signaling bit monitor states.
TXFas1 to 2 Status Register	Reports the transmission line frame bit monitor states and includes the lower level summary messages.
TXFBit0 to 19 Status Register	Reports the transmission line frame bit monitor states.

#### 7.4 MD6430A-Specific Status Register

**Table 7.4-1 MD6430A-Specific Status Register Description (2/2)**

RXFas1 to 2 Status Register	Reports the reception line frame bit monitor states and includes lower level summary messages.
RXFBit0 to 19 Status Register	Reports the reception line frame bit monitor states.
INSTrument Status Register	Reports the device state and includes the lower level summary message.
BATTery Status Register	Reports the battery state.

The followings show the configuration charts of the above registers.

## SECTION 7 STATUS REPORT

### ■ TELEcom Status Register

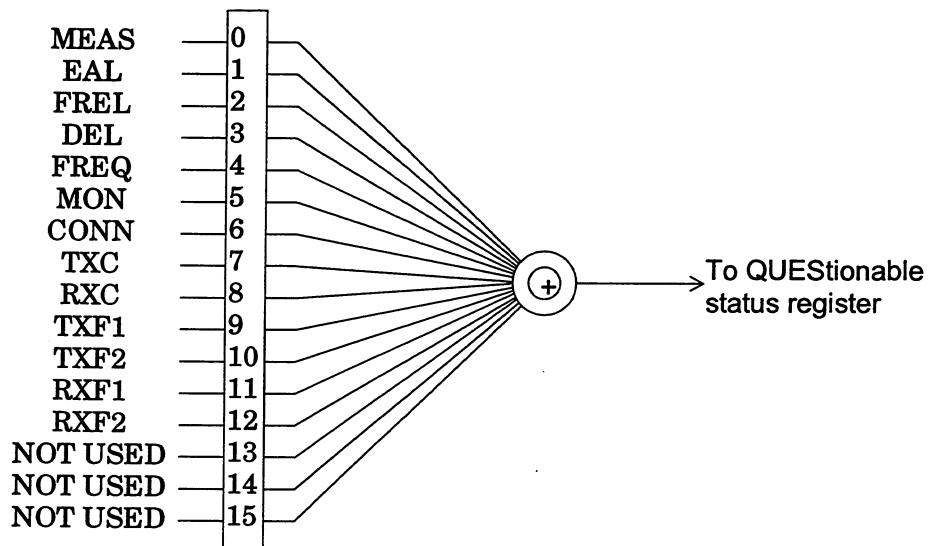


Fig. 7.4-1 TELEcom Status Register

Table 7.4-2 Bit Definition of TELEcom Status Register

Bit	Mnemonic	Description
DB0	MEAS (MEASure status register summary)	MEASure Status Register Summary
DB1	EAL (EALarm status register summary)	EALarm Status Register Summary
DB2	FREL (FRELay status register summary)	FRELay Status Register Summary
DB3	DEL (DELay status register summary)	DELay Status Register Summary
DB4	FREQ (FREQuency status register summary)	FREQuent Status Register Summary
DB5	MON (MONitor status register summary)	MONitor Status Register Summary
DB6	CONN (CONNection status register summary)	CONNection Status Register Summary
DB7	TXC (TXCas status register summary)	TXCas Status Register Summary
DB8	RXC (RXCas status register summary)	RXCas Status Register Summary
DB9	TXF1 (TXFas1 status register summary)	TXFas1 Status Register Summary
DB10	TXF2 (TXFas2 status register summary)	TXFas2 Status Register Summary
DB11	RXF1 (RXFas1 status register summary)	RXFas1 Status Register Summary
DB12	RXF2 (RXFas2 status register summary)	RXFas2 Status Register Summary

■ MEASure Status Register Summary

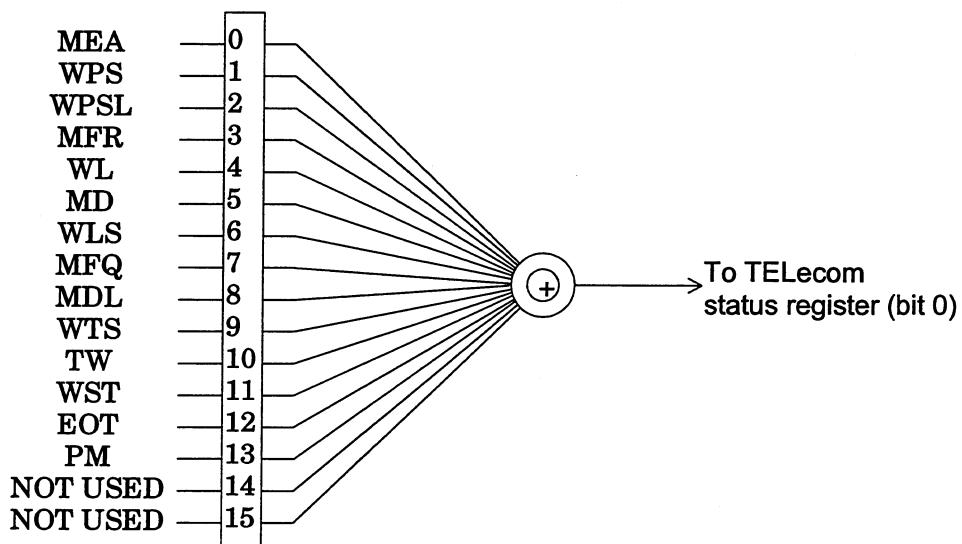


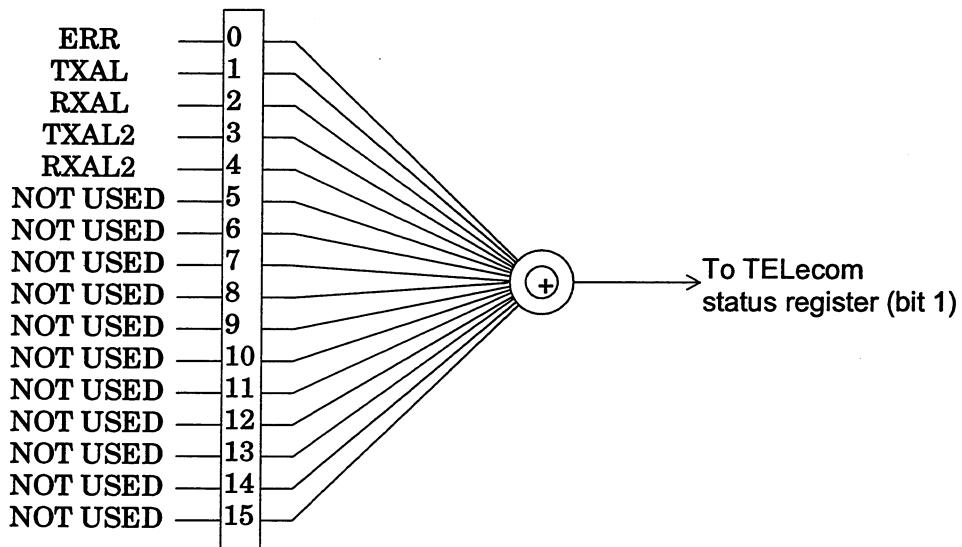
Fig. 7.4-2 MEASure Status Register

Table 7.4-3 Bit Definition of MEASure Status Register

Bit	Mnemonic	Description
DB0	MEA (Measuring Error/Alarm)	Indicates that Error/Alarm is being measured.
DB1	WPS (Waiting Program Start)	Indicates that the system is waiting for start of Error/Alarm program.
DB2	WPSL (Waiting PSL)	Indicates that the system is waiting for establishment of Error/Alarm PSL synchronization.
DB3	MFR (Measuring Frame Relay)	Indicates that Frame Relay is being measured.
DB4	WL (Waiting Link)	Indicates that the system is waiting for Frame Relay link.
DB5	MD (Measuring Delay)	Indicates that Delay is being measured.
DB6	WLS (Waiting Line interval Start trigger)	Indicates that the system is waiting for start trigger of Line Interval for Delay measurement.
DB7	MFQ (Measuring Frequency)	Indicates that Frequency is being measured.
DB8	MDL (Measuring Digital Level)	Indicates that Digital Level is being measured.
DB9	WTS (Word Trace Start)	Indicates that Word Trace is being transmitted.
DB10	TW (Tracing Word)	Indicates that Word Trace is being executed.
DB11	WST (Waiting Start Trigger)	Indicates that the system is waiting for start trigger of Word Trace.
DB12	EOM (End Of Measure Period)	Indicates that the repeat period of repeat measurement has been completed. (_ ^-_  occurrence like pulse)
DB13	PM (Protocol Monitor)	Indicates that Protocol monitor is being monitored.

## SECTION 7 STATUS REPORT

### ■ EALarm Status Register



**Fig. 7.4-3 EALarm Status Register**

**Table 7.4-4 Bit Definition of EALarm Status Register**

Bit	Mnemonic	Description
DB0	ERR (ERRor status register summary)	ERRor Status Register Summary
DB1	TXAL (TXALarm status register summary)	TXALarm Status Register Summary
DB2	RXAL (RXALarm status register summary)	RXALarm Status Register Summary
DB3	TXAL2 (TXALarm2 status register summary)	TXALarm2 Status Register Summary
DB4	RXAL2 (RXALarm2 status register summary)	RXALarm2 Status Register Summary

■ **ERRor Status Register**

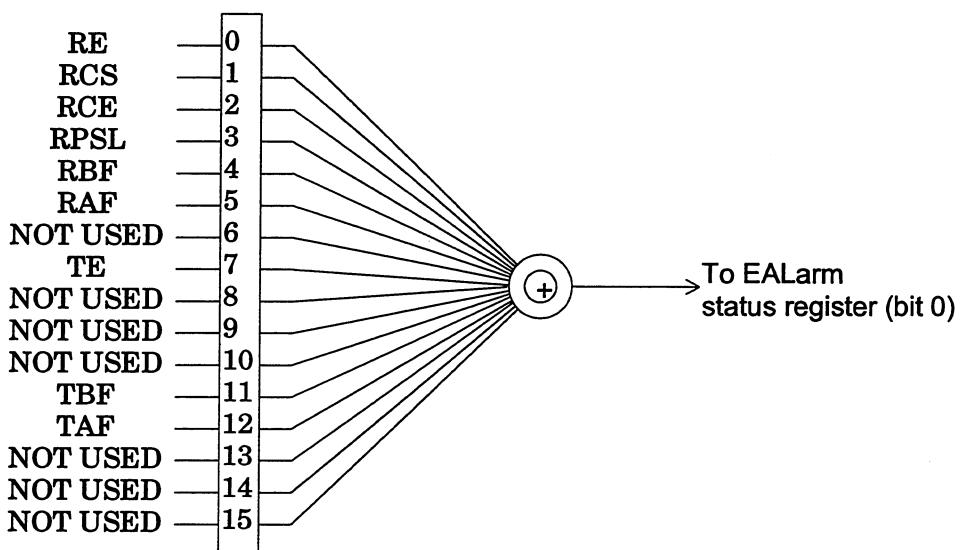


Fig. 7.4-4 ERRor Status Register

Table 7.4-5 Bit Definition of ERRor Status Register

Bit	Mnemonic	Description
DB0	RE (Rx Error)	Indicates that an error occurred in the reception line. (_ _ _ occurrence like pulse)
DB1	RCS (Rx Clock Slip)	Indicates that a clock slip occurred in the reception line. (_ _ _ occurrence like pulse)
DB2	RCE (Rx Charactor Error)	Indicates that a character error occurred in the reception line. (_ _ _ occurrence like pulse)
DB3	RPSL (Rx PSL)	Indicates that a PSL occurred in the reception line. (_ _ _ occurrence like pulse)
DB4	RBF (Rx Bad Frame)	Indicates that a Bad Frame occurred in the reception line. (_ _ _ occurrence like pulse)
DB5	RAF (Rx Abort Frame)	Indicates that an Abort Frame occurred in the reception line. (_ _ _ occurrence like pulse)
DB7	TE (Tx Error)	Indicates that an error occurred in the transmission line. (_ _ _ occurrence like pulse)
DB11	TBF (Tx Bad Frame)	Indicates that a Bad Frame occurred in the transmission line. (_ _ _ occurrence like pulse)
DB12	TAF (Tx Abort Frame)	Indicates that an Abort Frame occurred in the transmission line. (_ _ _ occurrence like pulse)

## SECTION 7 STATUS REPORT

### ■ TX(RX)ALarm Status Register

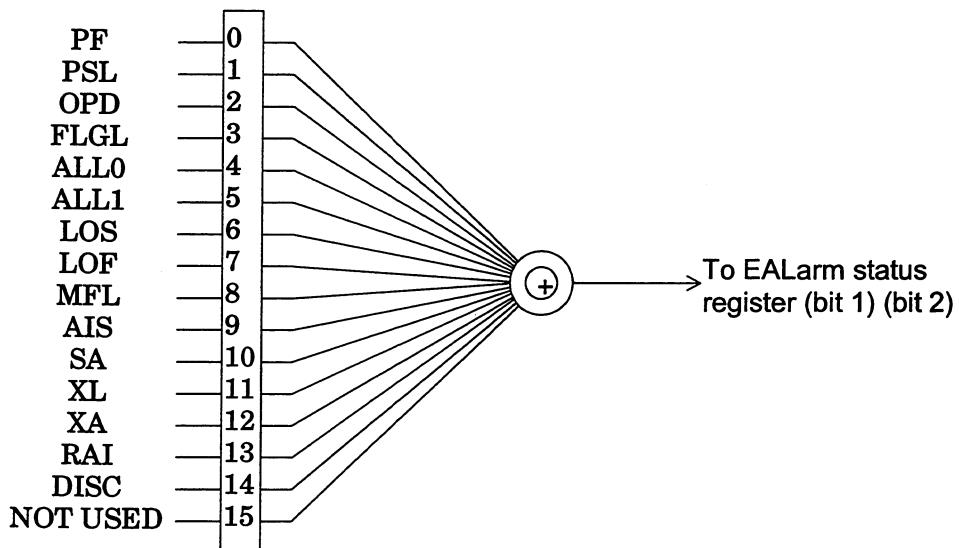


Fig. 7.4-5 Tx(Rx)ALarm Status Register

Table 7.4-6 Bit Definition of Tx(Rx)ALarm Status Register

Bit	Mnemonic	Description
DB0	PF (Power Fail)	Indicates that a Power Fail occurred in the transmission (reception) line.
DB1	PSL	Indicates that a PSL occurred in the transmission (reception) line.
DB2	OPD	Indicates that a OPD occurred in the transmission (reception) line.
DB3	FLGL	Indicates that a FLGL occurred in the transmission (reception) line.
DB4	ALL0	Indicates that a ALL0 occurred in the transmission (reception) line.
DB5	ALL1	Indicates that a ALL1 occurred in the transmission (reception) line.
DB6	LOS	Indicates that a LOS occurred in the transmission (reception) line.
DB7	LOF	Indicates that a LOF occurred in the transmission (reception) line.
DB8	MFL (MF Loss)	Indicates that a MF Loss occurred in the transmission (reception) line.
DB9	AIS	Indicates that a AIS occurred in the transmission (reception) line.
DB10	SA	Indicates that a SA occurred in the transmission (reception) line.
DB11	XL	Indicates that a XL occurred in the transmission (reception) line.
DB12	XA	Indicates that a XA occurred in the transmission (reception) line.
DB13	RAI	Indicates that a RAI occurred in the transmission (reception) line.
DB14	DISC (DISConnection)	Indicates that a DISConnection occurred in the transmission (reception) line.
DB15	NOT USED	

■ TX(RX)ALarm2 Status Register

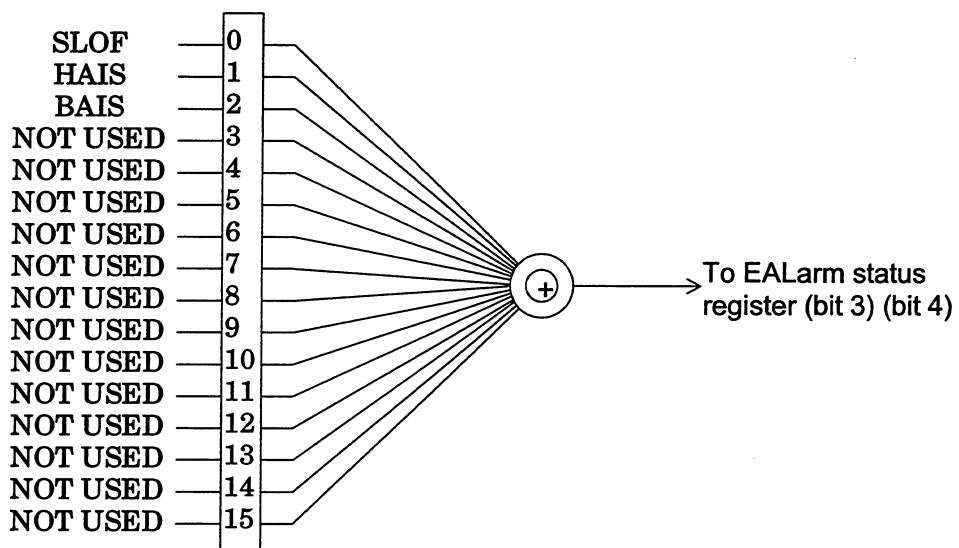


Fig. 7.4-6 Tx(Rx)ALarm2 Status Register

Table 7.4-7 Bit Definition of Tx(Rx)ALarm2 Status Register

Bit	Mnemonic	Description
DB0	SLOF (ST LOF)	Generates ST LOF in the transmission (reception) line.
DB1	HAIS (HG AIS)	Generates HG AIS in the transmission (reception) line.
DB2	BAIS	Generates BAIS in the transmission (reception) line.

## SECTION 7 STATUS REPORT

### ■ FRELay Status Register

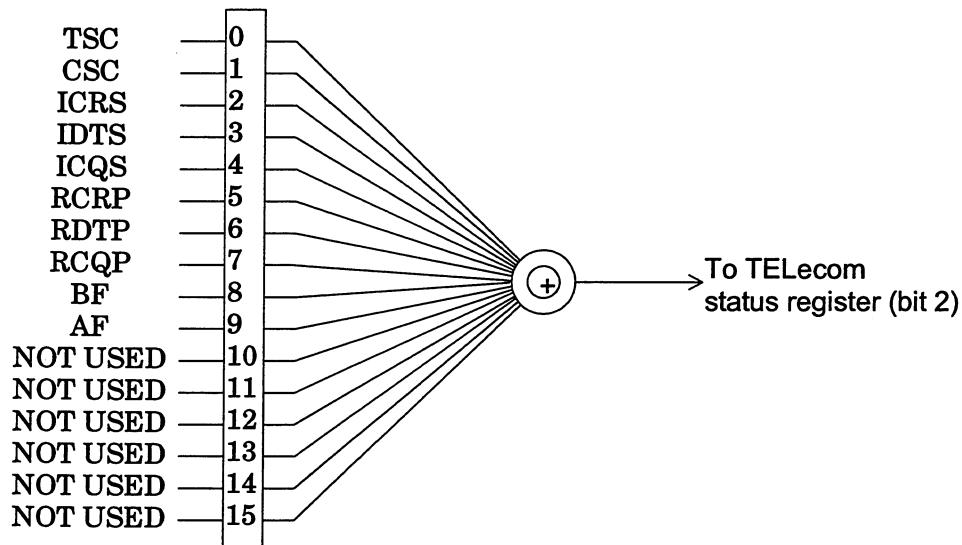


Fig. 7.4-7 FRELay Status Register

Table 7.4-8 Bit Definition of FRELay Status Register

Bit	Mnemonic	Description
DB0	TSC (Test sequence count)	Indicates that Test Sequence Count occurred. ( <u> ^ </u> occurrence like pulse)
DB1	CSC (complete sequence count)	Indicates that Complete Sequence Count occurred. ( <u> ^ </u> occurrence like pulse)
DB2	ICRS (Incomplete CR sequence count)	Indicates that Incomplete CR Sequence count occurred. ( <u> ^ </u> occurrence like pulse)
DB3	IDTS (Incomplete DT sequence count)	Indicates that Incomplete DT Sequence count occurred. ( <u> ^ </u> occurrence like pulse)
DB4	ICQS (Incomplete CQ sequence count)	Indicates that Incomplete CQ Sequence count occurred. ( <u> ^ </u> occurrence like pulse)
DB5	RCRP (Receive CR Packec count)	Indicates that a Receive CR Packec count occurred. ( <u> ^ </u> occurrence like pulse)
DB6	RDTP (Receive DT Packec count)	Indicates that a Receive DT Packec count occurred. ( <u> ^ </u> occurrence like pulse)
DB7	RCQP (Receive CQ Packec count)	Indicates that a Receive CQ Packec count occurred. ( <u> ^ </u> occurrence like pulse)
DB8	BF (Bad Frame)	Indicates that a Bad Frame occurred. ( <u> ^ </u> occurrence like pulse)
DB9	AF (Abort Frame)	Indicates that an Abort Frame occurred. ( <u> ^ </u> occurrence like pulse)

■ DELay Status Register

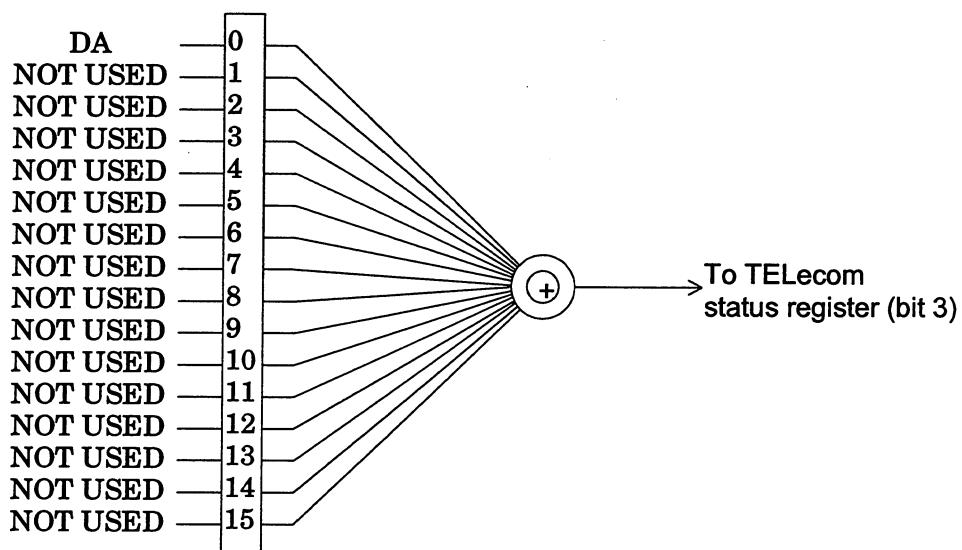


Fig. 7.4-8 DELay Status Register

Table 7.4-9 Bit Definition of DELay Status Register

Bit	Mnemonic	Description
DB0	DA (Data Arrived)	Indicates that the data arrived. ( <u>I^I</u> occurrence like pulse)

## SECTION 7 STATUS REPORT

### ■ FREQuency Status Register

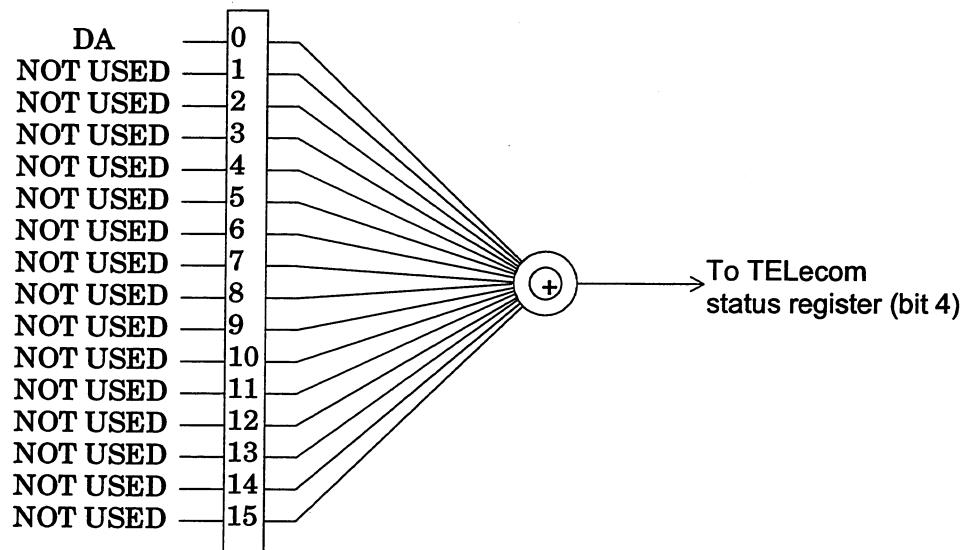


Fig. 7.4-9 FREQuency Status Register

Table 7.4-10 Bit Definition of FREQuency Status Register

Bit	Mnemonic	Description
DB0	DA (Data Arrived)	Indicates that the data arrived. ( <u> </u> <sup>^</sup> <u> </u> occurrence like pulse)

■ MONitor Status Register

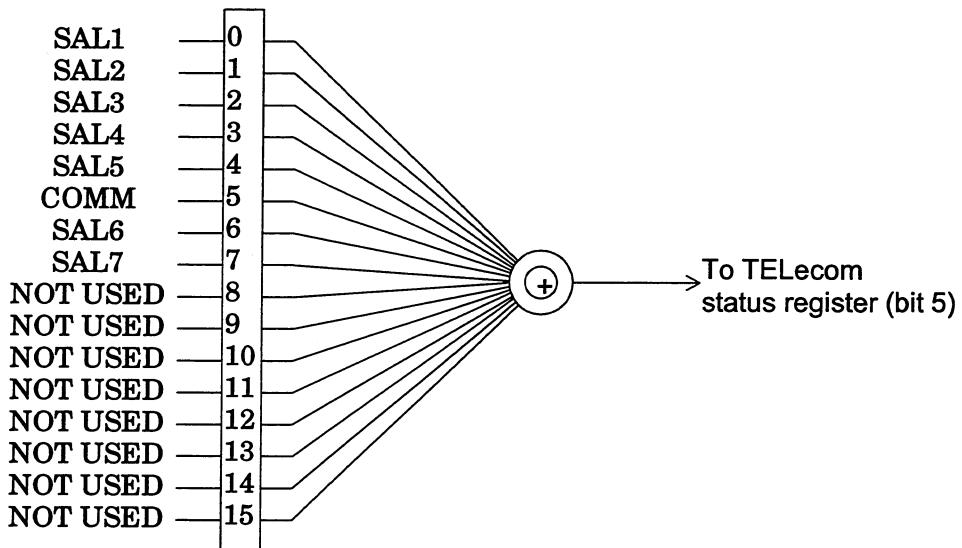


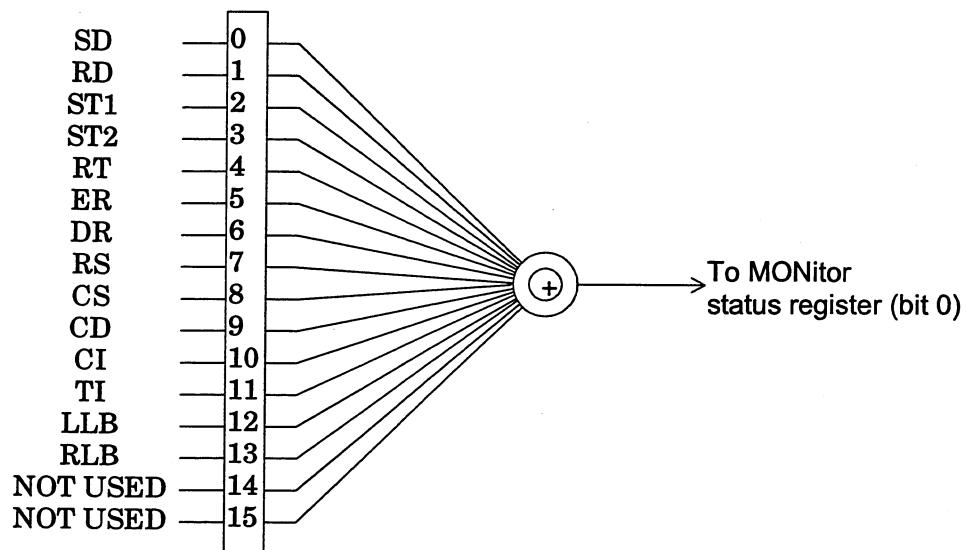
Fig. 7.4-10 MONitor Status Register

Table 7.4-11 Bit Definition of MONitor Status Register

Bit	Mnemonic	Description
DB0	SAL1 (SALarm1 status register summary)	SALarm1 Status Register Summary
DB1	SAL2 (SALarm2 status register summary)	SALarm2 Status Register Summary
DB2	SAL3 (SALarm3 status register summary)	SALarm3 Status Register Summary
DB3	SAL4 (SALarm4 status register summary)	SALarm4 Status Register Summary
DB4	SAL5 (SALarm5 status register summary)	SALarm5 Status Register Summary
DB5	COMM (COMMON status register summary)	COMMON Status Register Summary
DB6	SAL6 (SALarm6 status register summary)	SALarm6 Status Register Summary
DB7	SAL7 (SALarm7 status register summary)	SALarm7 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ SALarm1 Status Register

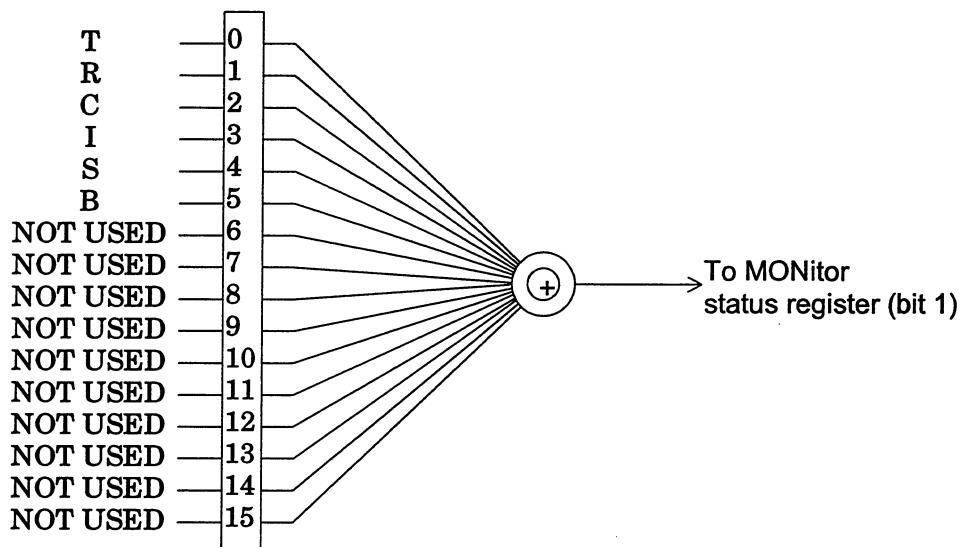


**Fig. 7.4-11 SALarm1 Status Register**

**Table 7.4-12 Bit Definition of SALarm1 Status Register**

Bit	Mnemonic	Description
DB0	SD (SD)	Indicates that SD is set to 1.
DB1	RD (RD)	Indicates that RD is set to 1.
DB2	ST1 (ST1)	Indicates that ST1 is set to ON.
DB3	ST2 (ST2)	Indicates that ST2 is set to ON.
DB4	RT (RT)	Indicates that RT is set to ON.
DB5	ER (ER)	Indicates that ER is set to ON.
DB6	DR (DR)	Indicates that DR is set to ON.
DB7	RS (RS)	Indicates that RS is set to ON.
DB8	CS (CS)	Indicates that CS is set to ON.
DB9	CD (CD)	Indicates that CD is set to ON.
DB10	CI (CI)	Indicates that CI is set to ON.
DB11	TI (TI)	Indicates that TI is set to ON.
DB12	LLB (LLB)	Indicates that LLB is set to ON.
DB13	RLB (RLB)	Indicates that RLB is set to ON.

■ **SALarm2 Status Register**



**Fig. 7.4-12 SALarm2 Status Register**

**Table 7.4-13 Bit Definition of SALarm2 Status Register**

Bit	Mnemonic	Description
DB0	T (T)	Indicates that T is set to ON.
DB1	R (R)	Indicates that R is set to ON.
DB2	C (C)	Indicates that C is set to ON.
DB3	I (I)	Indicates that I is set to ON.
DB4	S (S)	Indicates that S is set to ON.
DB5	B (B)	Indicates that B is set to ON.

## SECTION 7 STATUS REPORT

### ■ SALarm3 Status Register

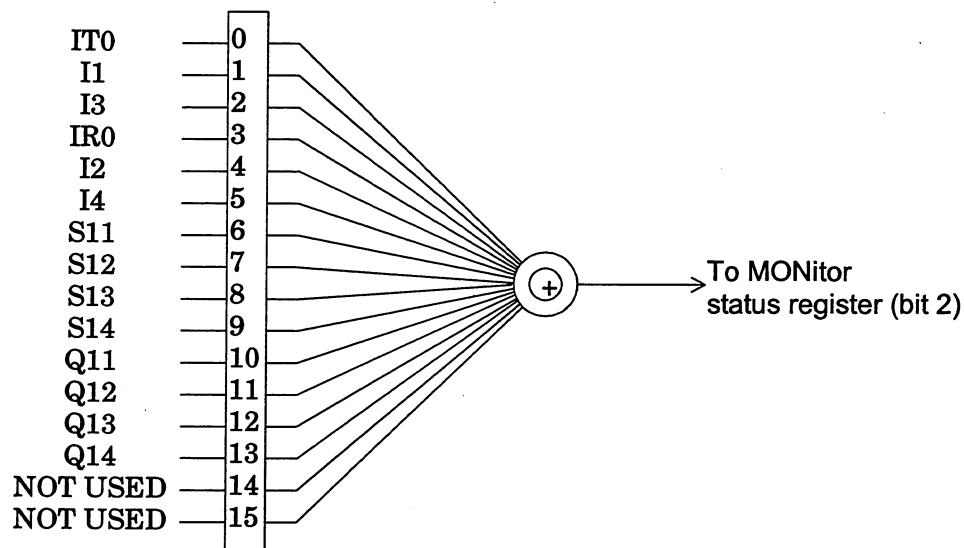


Fig. 7.4-13 SALarm3 Status Register

Table 7.4-14 Bit Definition of SALarm3 Status Register

Bit	Mnemonic	Description
DB0	IT0 (INFO 0T)	Indicates the INFO 0T state.
DB1	I1 (INFO 1)	Indicates the INFO 1 state.
DB2	I3 (INFO 3)	Indicates the INFO 3 state.
DB3	IR0 (INFO 0R)	Indicates the INFO 0R state.
DB4	I2 (INFO 2)	Indicates the INFO 2 state.
DB5	I4 (INFO 4)	Indicates the INFO 4 state.
DB6	S11 (S11)	Indicates that S11 is set to 1.
DB7	S12 (S12)	Indicates that S12 is set to 1.
DB8	S13 (S13)	Indicates that S13 is set to 1.
DB9	S14 (S14)	Indicates that S14 is set to 1.
DB10	Q11 (Q11)	Indicates that Q11 is set to 1.
DB11	Q12 (Q12)	Indicates that Q12 is set to 1.
DB12	Q13 (Q13)	Indicates that Q13 is set to 1.
DB13	Q14 (Q14)	Indicates that Q14 is set to 1.

■ SALarm4 Status Register

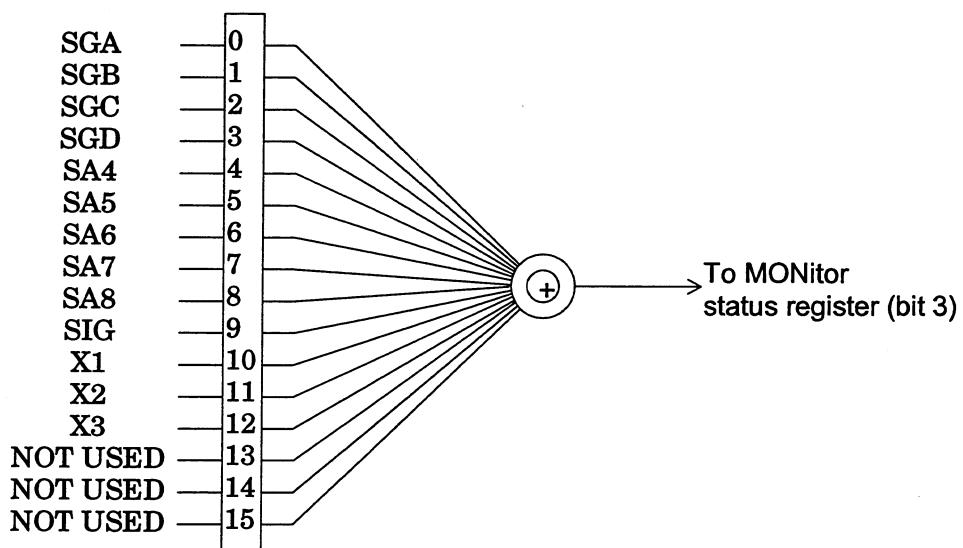


Fig. 7.4-14 SALarm4 Status Register

Table 7.4-15 Bit Definition of SALarm4 Status Register

Bit	Mnemonic	Description
DB0	SGA (SGA)	Indicates that SGA is set to 1.
DB1	SGB (SGB)	Indicates that SGB is set to 1.
DB2	SGC (SGC)	Indicates that SGC is set to 1.
DB3	SGD (SGD)	Indicates that SGD is set to 1.
DB4	SA4 (SA4)	Indicates that SA4 is set to 1.
DB5	SA5 (SA5)	Indicates that SA5 is set to 1.
DB6	SA6 (SA6)	Indicates that SA6 is set to 1.
DB7	SA7 (SA7)	Indicates that SA7 is set to 1.
DB8	SA8 (SA8)	Indicates that SA8 is set to 1.
DB9	SIG (SIG)	Indicates that SIG is set to 1.
DB10	X1 (X1)	Indicates that X1 is set to 1.
DB11	X2 (X2)	Indicates that X2 is set to 1.
DB12	X3 (X3)	Indicates that X3 is set to 1.

## SECTION 7 STATUS REPORT

### ■ SALarm5 Status Register

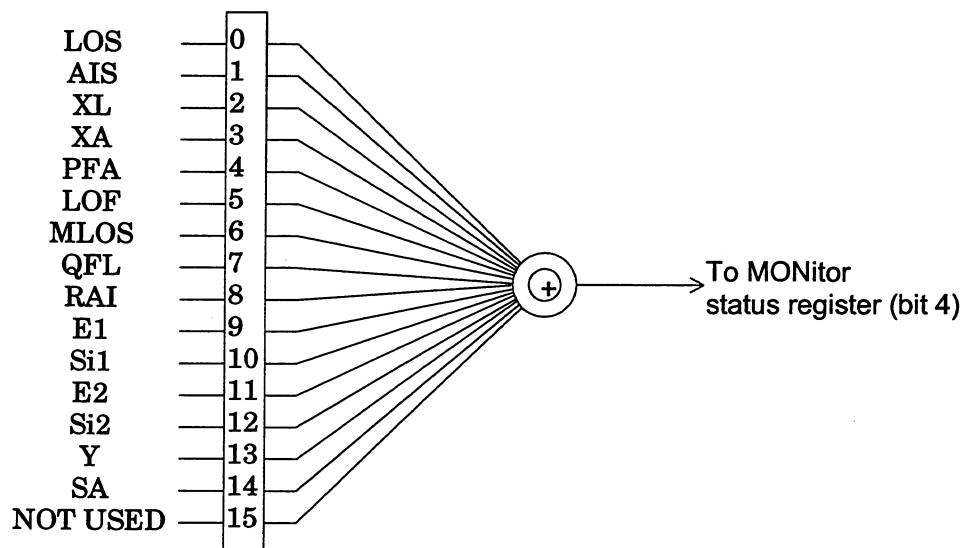


Fig. 7.4-15 SALarm5 Status Register

Table 7.4-16 Bit Definition of SALarm5 Status Register

Bit	Mnemonic	Description
DB0	LOS (LOS)	Indicates that a LOS occurred.
DB1	AIS (AIS)	Indicates that a AIS occurred.
DB2	XL (XL)	Indicates that a XL occurred.
DB3	XA (XA)	Indicates that a XA occurred.
DB4	PFA (PFA)	Indicates that a PFA occurred.
DB5	LOF (LOF)	Indicates that a LOF occurred.
DB6	MLOSSs (MF Loss)	Indicates that a MF Loss occurred.
DB7	QFL (QFL)	Indicates the FA bit state.
DB8	RAI (RAI)	Indicates that a RAI occurred.
DB9	E1 (E1)	Indicates that E1 is set to 1.
DB10	SI1 (Si1)	Indicates that SI1 is set to 1.
DB11	E2 (E2)	Indicates that E2 is set to 1.
DB12	SI2 (Si2)	Indicates that SI2 is set to 1.
DB13	Y (Y)	Indicates that Y is set to 1.
DB14	SA (SA)	Indicates that a SA occurred.

### ■ COMMON Status Register

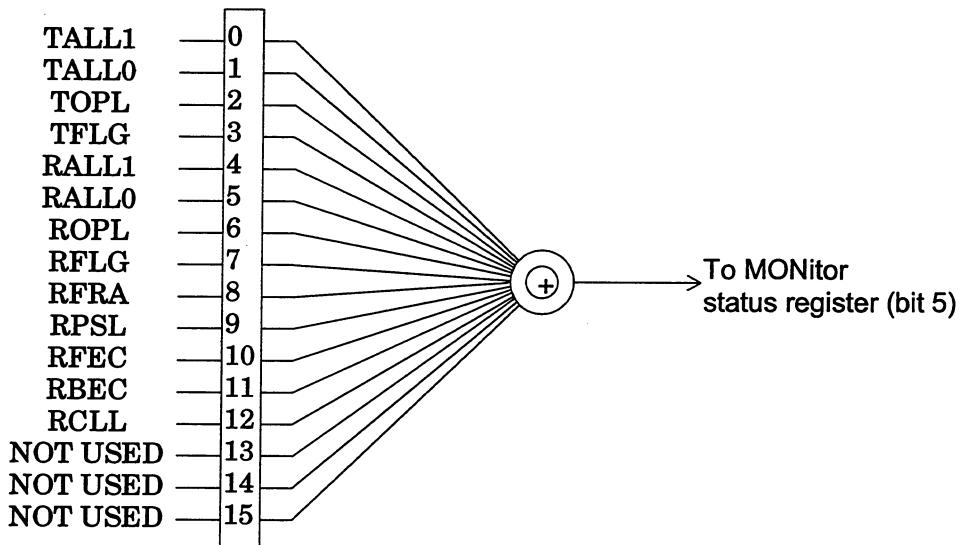


Fig. 7.4-16 COMMON Status Register

Table 7.4-17 Bit Definition of COMMON Status Register

Bit	Mnemonic	Description
DB0	TALL1 (Tx All1)	Indicates that the specified time slot of transmission line is ALL1.
DB1	TALL0 (Tx All0)	Indicates that the specified time slot of transmission line is ALL0.
DB2	TOPD (Tx OPD)	Indicates that an OPD occurred in the transmission line.
DB3	TFLGI (Tx FLGI)	Indicates that a FLGL occurred in the transmission line.
DB4	RALL1 (Rx All1)	Indicates that the specified time slot in the reception line is ALL1.
DB5	RALL0 (Rx All0)	Indicates that the specified time slot in the reception line is ALL0.
DB6	ROPD (Rx OPD)	Indicates that a OPD occurred in the reception line.
DB7	RFLGI (Rx FLGI)	Indicates that a FLGL occurred in the reception line.
DB8	RFRAI (Rx FRAI)	Indicates that the system is waiting for establishment of PVC verification procedure.
DB9	RPSL (Rx PSL)	Indicates that a PSL occurred in the reception line.
DB10	RFECn (Rx FECn)	Indicates that a FECN occurred in the reception line.
DB11	RBECn (Rx BECn)	Indicates that a BECN occurred in the reception line.
DB12	RCLLm (Rx CLLm)	Indicates that a CLLM occurred in the reception line.

## SECTION 7 STATUS REPORT

### ■ SALarm6 Status Register

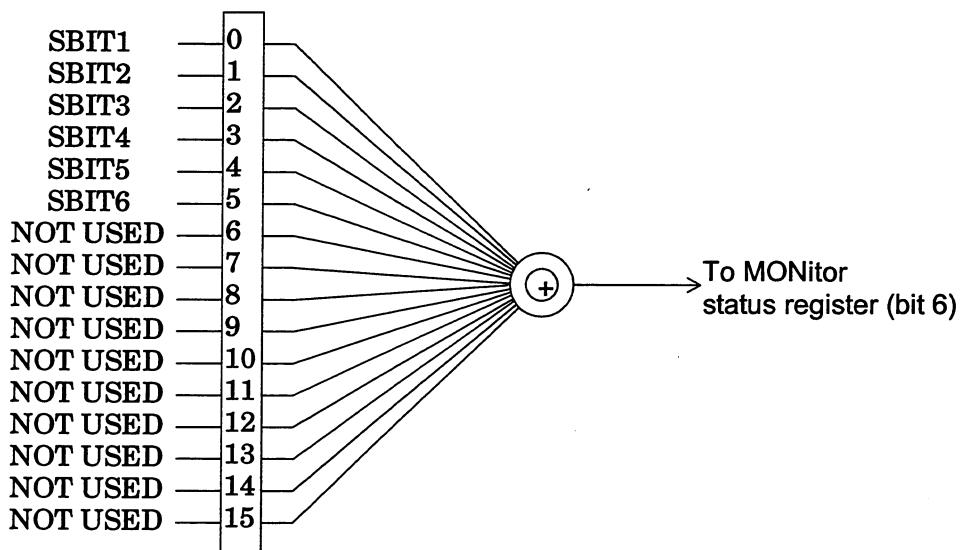
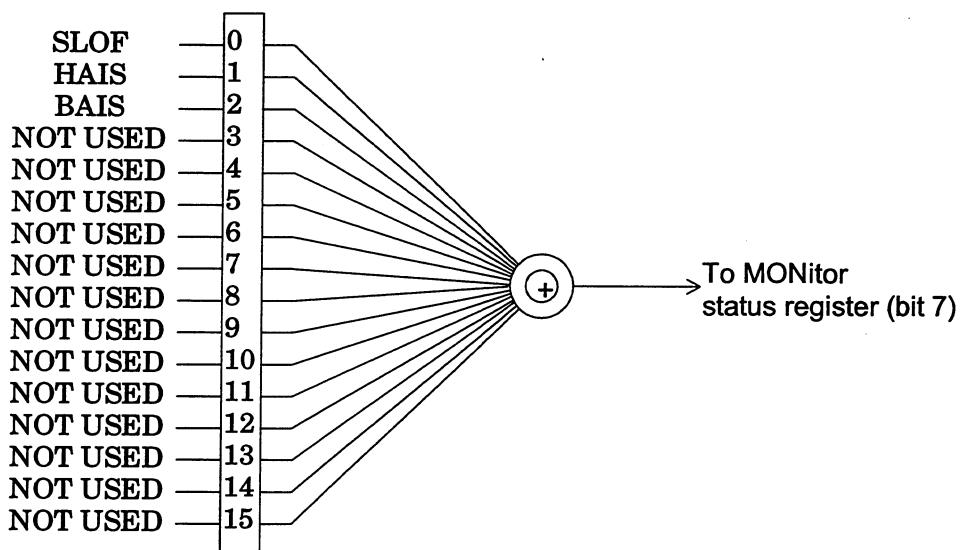


Fig. 7.4-17 SALarm6 Status Register

Table 7.4-18 Bit Definition of SALarm6 Status Register

Bit	Mnemonic	Description
DB0	SBIT1 (ST bit1)	Indicates that ST bit 1 is 1.
DB1	SBIT2 (ST bit2)	Indicates that ST bit 2 is 1.
DB2	SBIT3 (ST bit3)	Indicates that ST bit 3 is 1.
DB3	SBIT4 (ST bit4)	Indicates that ST bit 4 is 1.
DB4	SBIT5 (ST bit5)	Indicates that ST bit 5 is 1.
DB5	SBIT6 (ST bit6)	Indicates that ST bit 6 is 1.

■ **SALarm7 Status Register**



**Fig. 7.4-18 SALarm7 Status Register**

**Table 7.4-19 Bit Definition of SALarm7 Status Register**

Bit	Mnemonic	Description
DB0	SLOF (ST LOF)	Indicates that ST LOF occurred.
DB1	HAIS (HG AIS)	Indicates that HG AIS occurred.
DB2	BAIS (BAIS)	Indicates that BAIS occurred.

## SECTION 7 STATUS REPORT

### ■ CONNnection Status Register

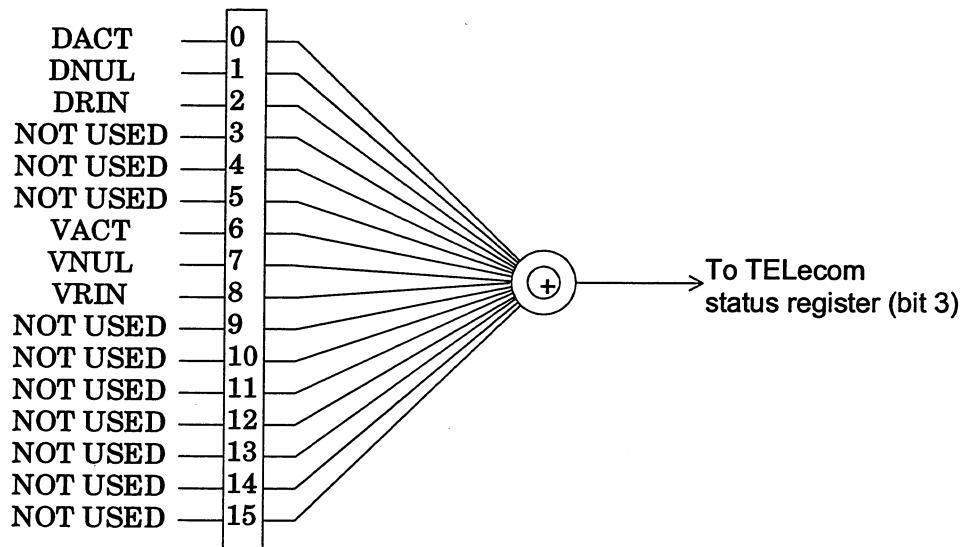


Fig. 7.4-19 CONNnection Status Register

Table 7.4-20 Bit Definition of CONNnection Status Register

Bit	Mnemonic	Description
DB0	DACT (Data ACTive)	Data active
DB1	DNUL (Data NULL)	Data null
DB2	DRIN (Data RINGing)	Data ringing
DB6	VACT (Voice ACTive)	Voice active
DB7	VNUL (Voice NULL)	Voice null
DB8	VRIN (Voice RINGing)	Voice ringing

■ TXCas Status Register

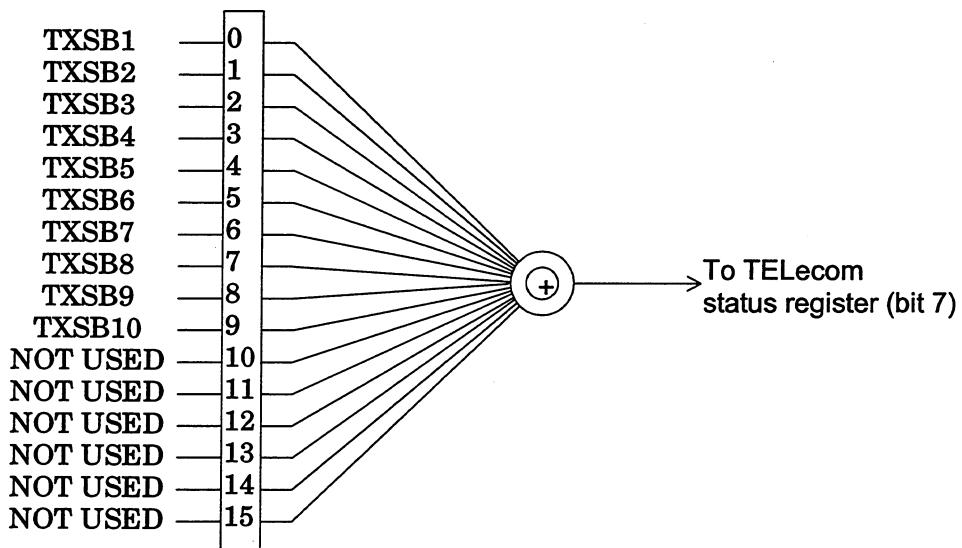


Fig. 7.4-20 TXCas Status Register

Table 7.4-21 Bit Definition of TXCas Status Register

Bit	Mnemonic	Description
DB0	TXSB1 (TXSBit1 status register summary)	TXSBit1 Status Register Summary
DB1	TXSB2 (TXSBit2 status register summary)	TXSBit2 Status Register Summary
DB2	TXSB3 (TXSBit3 status register summary)	TXSBit3 Status Register Summary
DB3	TXSB4 (TXSBit4 status register summary)	TXSBit4 Status Register Summary
DB4	TXSB5 (TXSBit5 status register summary)	TXSBit5 Status Register Summary
DB5	TXSB6 (TXSBit6 status register summary)	TXSBit6 Status Register Summary
DB6	TXSB7 (TXSBit7 status register summary)	TXSBit7 Status Register Summary
DB7	TXSB8 (TXSBit8 status register summary)	TXSBit8 Status Register Summary
DB8	TXSB9 (TXSBit9 status register summary)	TXSBit9 Status Register Summary
DB9	TXSB10 (TXSBit10 status register summary)	TXSBit10 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ TXSBit1 Status Register

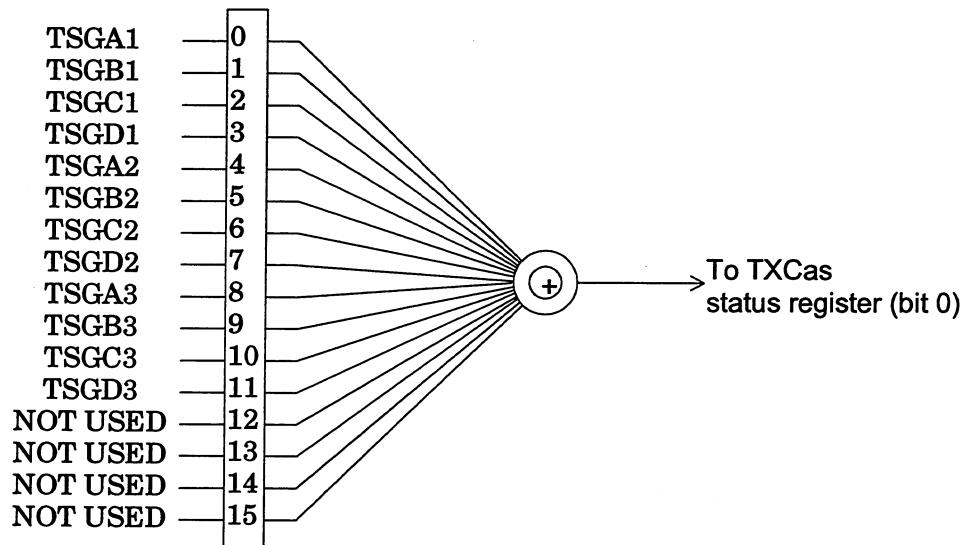


Fig. 7.4-21 TXSBit1 Status Register

Table 7.4-22 Bit Definition of TXSBit1 Status Register

Bit	Mnemonic	Description
DB0	TSGA1 (Tx SGA ch1)	Indicates that CH01 SgA of Tx line is 1.
DB1	TSGB1 (Tx SGB ch1)	Indicates that CH01 SgB of Tx line is 1.
DB2	TSGC1 (Tx SGC ch1)	Indicates that CH01 SgC of Tx line is 1.
DB3	TSGD1 (Tx SGD ch1)	Indicates that CH01 SgD of Tx line is 1.
DB4	TSGA2 (Tx SGA ch2)	Indicates that CH02 SgA of Tx line is 1.
DB5	TSGB2 (Tx SGB ch2)	Indicates that CH02 SgB of Tx line is 1.
DB6	TSGC2 (Tx SGC ch2)	Indicates that CH02 SgC of Tx line is 1.
DB7	TSGD2 (Tx SGD ch2)	Indicates that CH02 SgD of Tx line is 1.
DB8	TSGA3 (Tx SGA ch3)	Indicates that CH03 SgA of Tx line is 1.
DB9	TSGB3 (Tx SGB ch3)	Indicates that CH03 SgB of Tx line is 1.
DB10	TSGC3 (Tx SGC ch3)	Indicates that CH03 SgC of Tx line is 1.
DB11	TSGD3 (Tx SGD ch3)	Indicates that CH03 SgD of Tx line is 1.

■ TXSBit2 Status Register

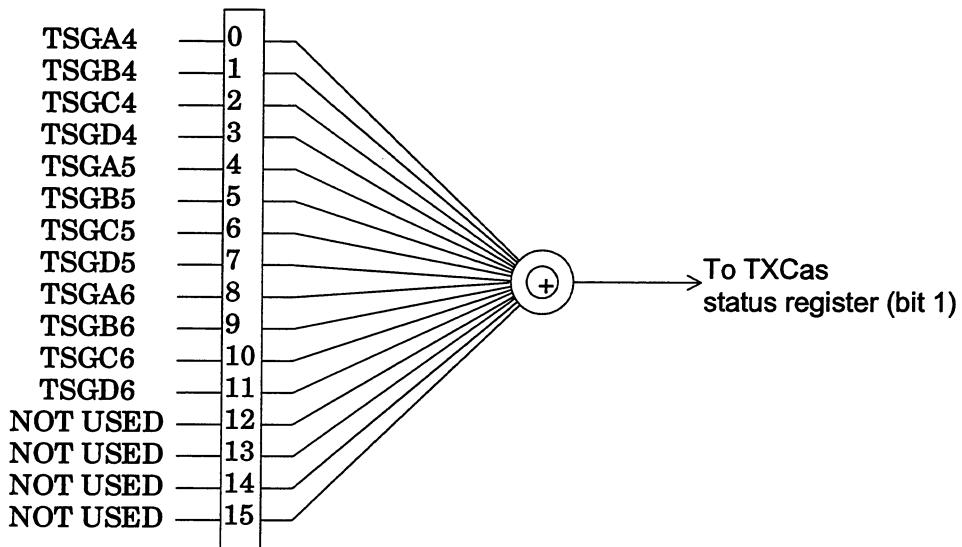


Fig. 7.4-22 TXSBit2 Status Register

Table 7.4-23 Bit Definition of TXSBit2 Status Register

Bit	Mnemonic	Description
DB0	TSGA4 (Tx SGA ch4)	Indicates that CH04 SgA of Tx line is 1.
DB1	TSGB4 (Tx SGB ch4)	Indicates that CH04 SgB of Tx line is 1.
DB2	TSGC4 (Tx SGC ch4)	Indicates that CH04 SgC of Tx line is 1.
DB3	TSGD4 (Tx SGD ch4)	Indicates that CH04 SgD of Tx line is 1.
DB4	TSGA5 (Tx SGA ch5)	Indicates that CH05 SgA of Tx line is 1.
DB5	TSGB5 (Tx SGB ch5)	Indicates that CH05 SgB of Tx line is 1.
DB6	TSGC5 (Tx SGC ch5)	Indicates that CH05 SgC of Tx line is 1.
DB7	TSGD5 (Tx SGD ch5)	Indicates that CH05 SgD of Tx line is 1.
DB8	TSGA6 (Tx SGA ch6)	Indicates that CH06 SgA of Tx line is 1.
DB9	TSGB6 (Tx SGB ch6)	Indicates that CH06 SgB of Tx line is 1.
DB10	TSGC6 (Tx SGC ch6)	Indicates that CH06 SgC of Tx line is 1.
DB11	TSGD6 (Tx SGD ch6)	Indicates that CH06 SgD of Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXSBit3 Status Register

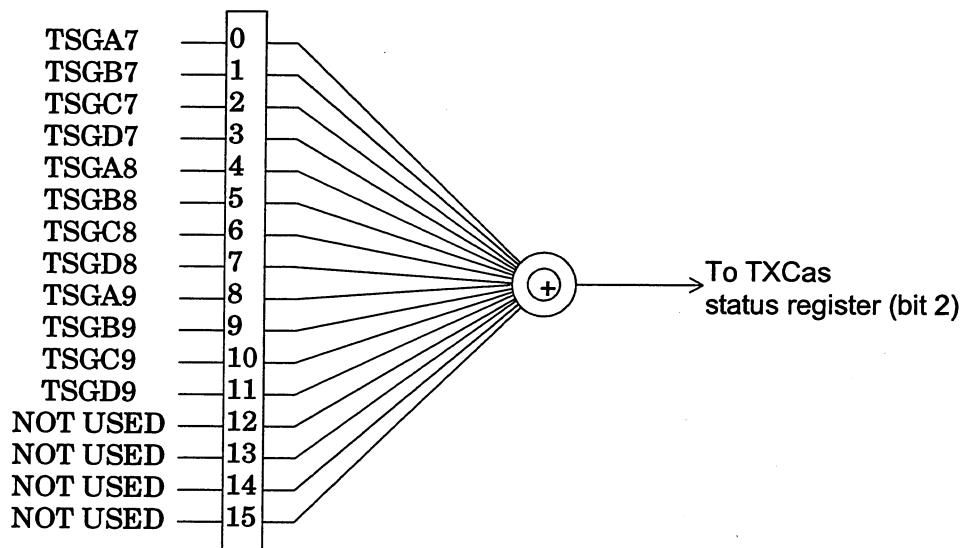


Fig. 7.4-23 TXSBit3 Status Register

Table 7.4-24 Bit Definition of TXSBit3 Status Register

Bit	Mnemonic	Description
DB0	TSGA7 (Tx SGA ch7)	Indicates that CH07 SgA of Tx line is 1.
DB1	TSGB7 (Tx SGB ch7)	Indicates that CH07 SgB of Tx line is 1.
DB2	TSGC7 (Tx SGC ch7)	Indicates that CH07 SgC of Tx line is 1.
DB3	TSGD7 (Tx SGD ch7)	Indicates that CH07 SgD of Tx line is 1.
DB4	TSGA8 (Tx SGA ch8)	Indicates that CH08 SgA of Tx line is 1.
DB5	TSGB8 (Tx SGB ch8)	Indicates that CH08 SgB of Tx line is 1.
DB6	TSGC8 (Tx SGC ch8)	Indicates that CH08 SgC of Tx line is 1.
DB7	TSGD8 (Tx SGD ch8)	Indicates that CH08 SgD of Tx line is 1.
DB8	TSGA9 (Tx SGA ch9)	Indicates that CH09 SgA of Tx line is 1.
DB9	TSGB9 (Tx SGB ch9)	Indicates that CH09 SgB of Tx line is 1.
DB10	TSGC9 (Tx SGC ch9)	Indicates that CH09 SgC of Tx line is 1.
DB11	TSGD9 (Tx SGD ch9)	Indicates that CH09 SgD of Tx line is 1.

■ TXSBit4 Status Register

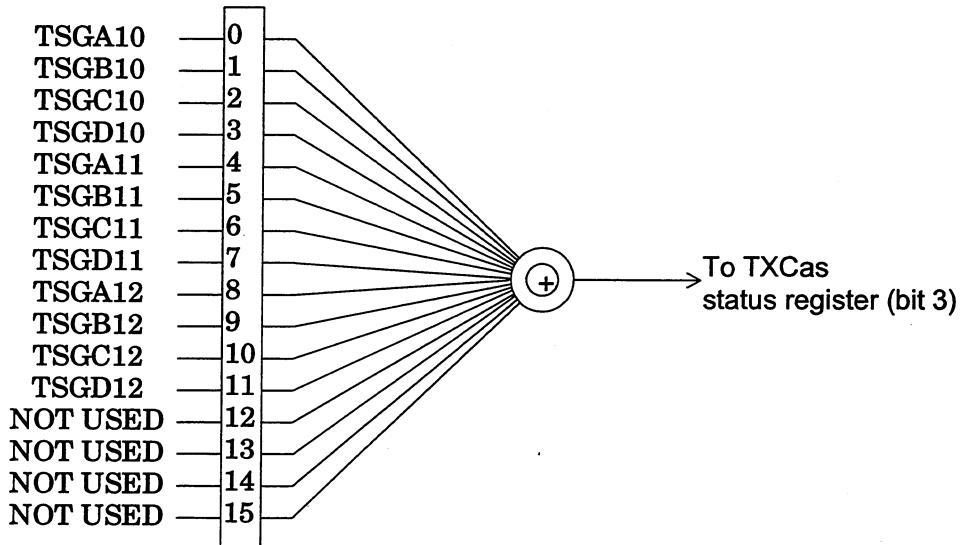


Fig. 7.4-24 TXSBit4 Status Register

Table 7.4-25 Bit Definition of TXSBit4 Status Register

Bit	Mnemonic	Description
DB0	TSGA10 (Tx SGA ch10)	Indicates that CH10 SgA of Tx line is 1.
DB1	TSGB10 (Tx SGB ch10)	Indicates that CH10 SgB of Tx line is 1.
DB2	TSGC10 (Tx SGC ch10)	Indicates that CH10 SgC of Tx line is 1.
DB3	TSGD10 (Tx SGD ch10)	Indicates that CH10 SgD of Tx line is 1.
DB4	TSGA11 (Tx SGA ch11)	Indicates that CH11 SgA of Tx line is 1.
DB5	TSGB11 (Tx SGB ch11)	Indicates that CH11 SgB of Tx line is 1.
DB6	TSGC11 (Tx SGC ch11)	Indicates that CH11 SgC of Tx line is 1.
DB7	TSGD11 (Tx SGD ch11)	Indicates that CH11 SgD of Tx line is 1.
DB8	TSGA12 (Tx SGA ch12)	Indicates that CH12 SgA of Tx line is 1.
DB9	TSGB12 (Tx SGB ch12)	Indicates that CH12 SgB of Tx line is 1.
DB10	TSGC12 (Tx SGC ch12)	Indicates that CH12 SgC of Tx line is 1.
DB11	TSGD12 (Tx SGD ch12)	Indicates that CH12 SgD of Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXSBit5 Status Register

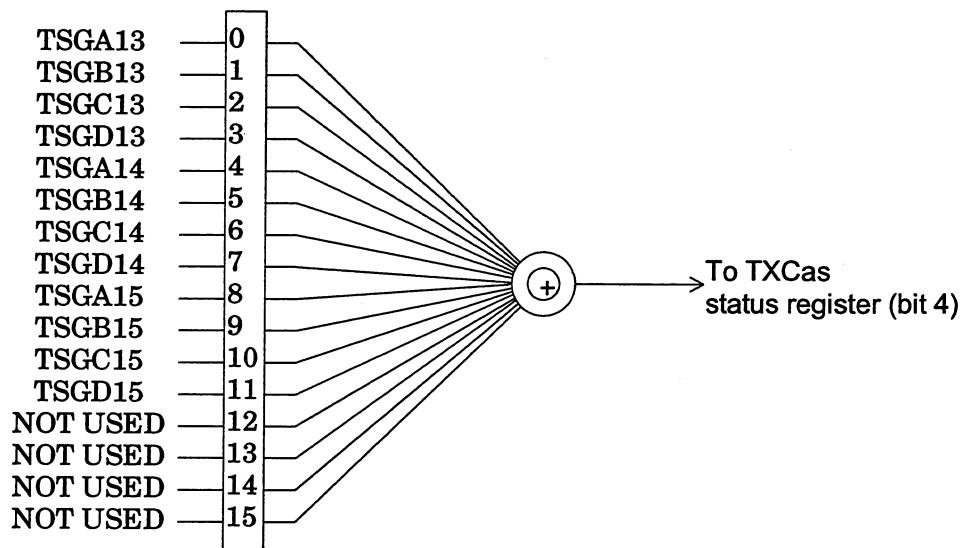


Fig. 7.4-25 TXSBit5 Status Register

Table 7.4-26 Bit Definition of TXSBit5 Status Register

Bit	Mnemonic	Description
DB0	TSGA13 (Tx SGA ch13)	Indicates that CH13 SgA of Tx line is 1.
DB1	TSGB13 (Tx SGB ch13)	Indicates that CH13 SgB of Tx line is 1.
DB2	TSGC13 (Tx SGC ch13)	Indicates that CH13 SgC of Tx line is 1.
DB3	TSGD13 (Tx SGD ch13)	Indicates that CH13 SgD of Tx line is 1.
DB4	TSGA14 (Tx SGA ch14)	Indicates that CH14 SgA of Tx line is 1.
DB5	TSGB14 (Tx SGB ch14)	Indicates that CH14 SgB of Tx line is 1.
DB6	TSGC14 (Tx SGC ch14)	Indicates that CH14 SgC of Tx line is 1.
DB7	TSGD14 (Tx SGD ch14)	Indicates that CH14 SgD of Tx line is 1.
DB8	TSGA15 (Tx SGA ch15)	Indicates that CH15 SgA of Tx line is 1.
DB9	TSGB15 (Tx SGB ch15)	Indicates that CH15 SgB of Tx line is 1.
DB10	TSGC15 (Tx SGC ch15)	Indicates that CH15 SgC of Tx line is 1.
DB11	TSGD15 (Tx SGD ch15)	Indicates that CH15 SgD of Tx line is 1.

■ TXSBit6 Status Register

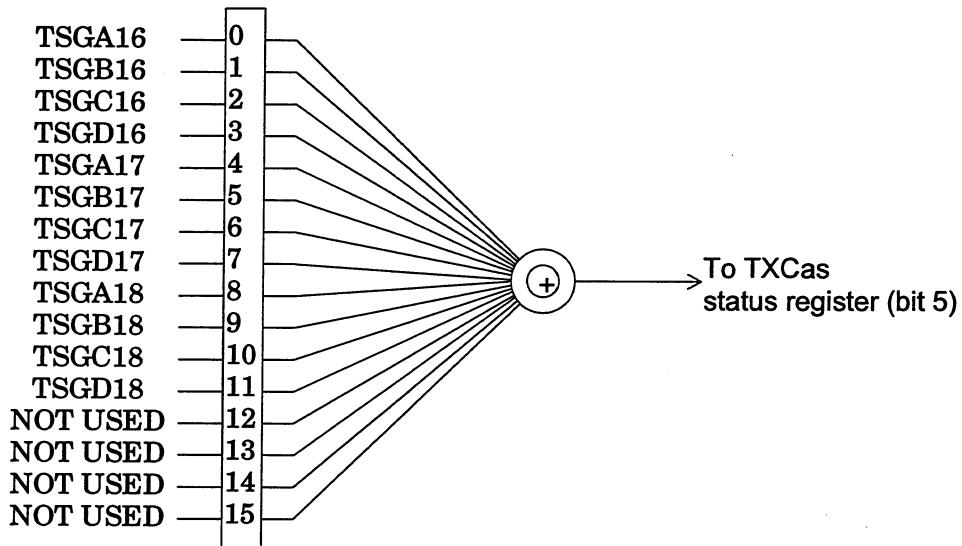


Fig. 7.4-26 TXSBit6 Status Register

Table 7.4-27 Bit Definition of TXSBit6 Status Register

Bit	Mnemonic	Description
DB0	TSGA16 (Tx SGA ch16)	Indicates that CH16 SgA of Tx line is 1.
DB1	TSGB16 (Tx SGB ch16)	Indicates that CH16 SgB of Tx line is 1.
DB2	TSGC16 (Tx SGC ch16)	Indicates that CH16 SgC of Tx line is 1.
DB3	TSGD16 (Tx SGD ch16)	Indicates that CH16 SgD of Tx line is 1.
DB4	TSGA17 (Tx SGA ch17)	Indicates that CH17 SgA of Tx line is 1.
DB5	TSGB17 (Tx SGB ch17)	Indicates that CH17 SgB of Tx line is 1.
DB6	TSGC17 (Tx SGC ch17)	Indicates that CH17 SgC of Tx line is 1.
DB7	TSGD17 (Tx SGD ch17)	Indicates that CH17 SgD of Tx line is 1.
DB8	TSGA18 (Tx SGA ch18)	Indicates that CH18 SgA of Tx line is 1.
DB9	TSGB18 (Tx SGB ch18)	Indicates that CH18 SgB of Tx line is 1.
DB10	TSGC18 (Tx SGC ch18)	Indicates that CH18 SgC of Tx line is 1.
DB11	TSGD18 (Tx SGD ch18)	Indicates that CH18 SgD of Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXSBit7 Status Register

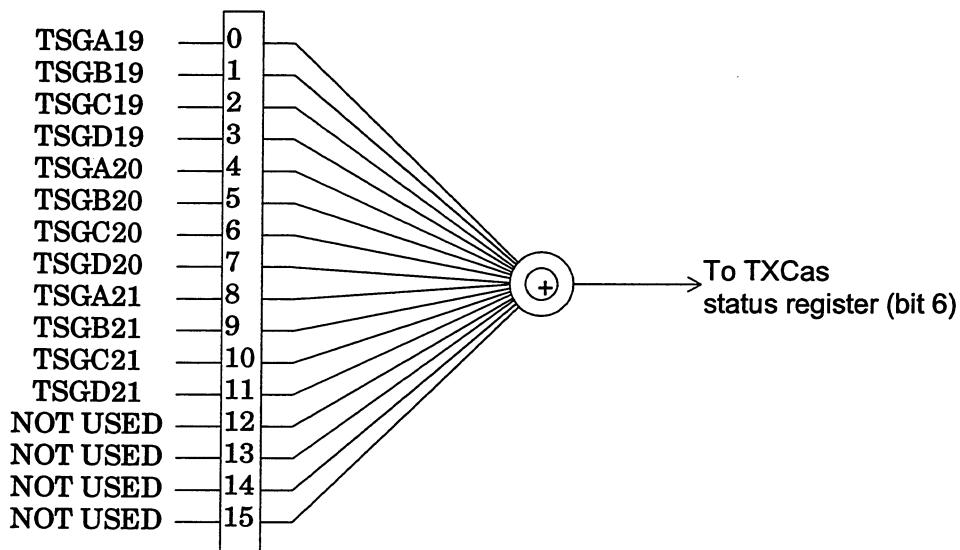


Fig. 7.4-27 TXSBit7 Status Register

Table 7.4-28 Bit Definition of TXSBit7 Status Register

Bit	Mnemonic	Description
DB0	TSGA19 (Tx SGA ch19)	Indicates that CH19 SgA of Tx line is 1.
DB1	TSGB19 (Tx SGB ch19)	Indicates that CH19 SgB of Tx line is 1.
DB2	TSGC19 (Tx SGC ch19)	Indicates that CH19 SgC of Tx line is 1.
DB3	TSGD19 (Tx SGD ch19)	Indicates that CH19 SgD of Tx line is 1.
DB4	TSGA20 (Tx SGA ch20)	Indicates that CH20 SgA of Tx line is 1.
DB5	TSGB20 (Tx SGB ch20)	Indicates that CH20 SgB of Tx line is 1.
DB6	TSGC20 (Tx SGC ch20)	Indicates that CH20 SgC of Tx line is 1.
DB7	TSGD20 (Tx SGD ch20)	Indicates that CH20 SgD of Tx line is 1.
DB8	TSGA21 (Tx SGA ch21)	Indicates that CH21 SgA of Tx line is 1.
DB9	TSGB21 (Tx SGB ch21)	Indicates that CH21 SgB of Tx line is 1.
DB10	TSGC21 (Tx SGC ch21)	Indicates that CH21 SgC of Tx line is 1.
DB11	TSGD21 (Tx SGD ch21)	Indicates that CH21 SgD of Tx line is 1.

■ TXSBit8 Status Register

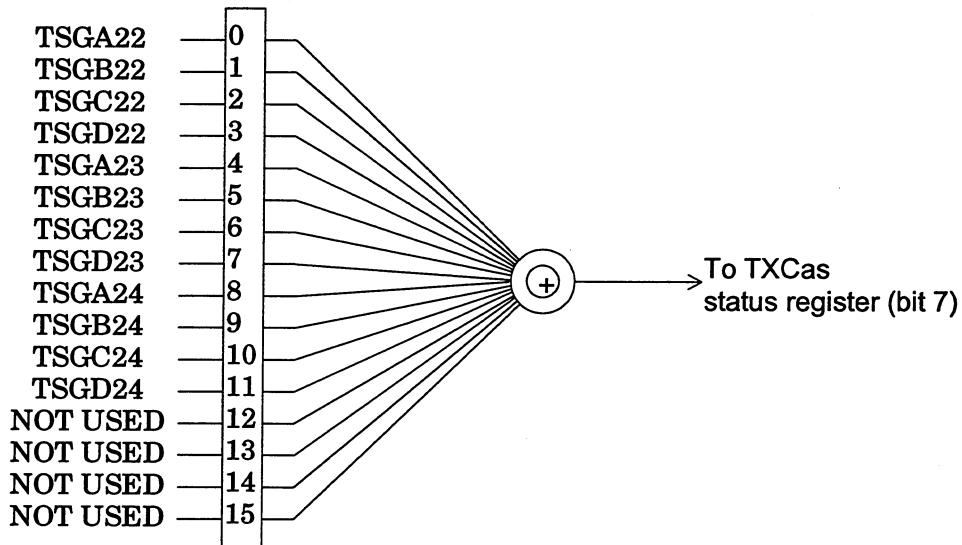


Fig. 7.4-28 TXSBit8 Status Register

Table 7.4-29 Bit Definition of TXSBit8 Status Register

Bit	Mnemonic	Description
DB0	TSGA22 (Tx SGA ch22)	Indicates that CH22 SgA of Tx line is 1.
DB1	TSGB22 (Tx SGB ch22)	Indicates that CH22 SgB of Tx line is 1.
DB2	TSGC22 (Tx SGC ch22)	Indicates that CH22 SgC of Tx line is 1.
DB3	TSGD22 (Tx SGD ch22)	Indicates that CH22 SgD of Tx line is 1.
DB4	TSGA23 (Tx SGA ch23)	Indicates that CH23 SgA of Tx line is 1.
DB5	TSGB23 (Tx SGB ch23)	Indicates that CH23 SgB of Tx line is 1.
DB6	TSGC23 (Tx SGC ch23)	Indicates that CH23 SgC of Tx line is 1.
DB7	TSGD23 (Tx SGD ch23)	Indicates that CH23 SgD of Tx line is 1.
DB8	TSGA24 (Tx SGA ch24)	Indicates that CH24 SgA of Tx line is 1.
DB9	TSGB24 (Tx SGB ch24)	Indicates that CH24 SgB of Tx line is 1.
DB10	TSGC24 (Tx SGC ch24)	Indicates that CH24 SgC of Tx line is 1.
DB11	TSGD24 (Tx SGD ch24)	Indicates that CH24 SgD of Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXSBit9 Status Register

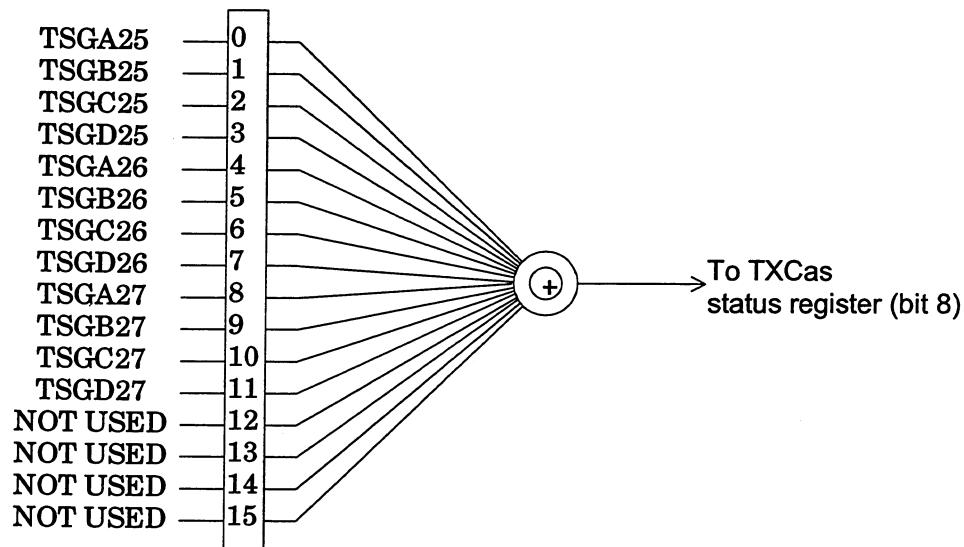


Fig. 7.4-29 TXSBit9 Status Register

Table 7.4-30 Bit Definition of TXSBit9 Status Register

Bit	Mnemonic	Description
DB0	TSGA25 (Tx SGA ch25)	Indicates that CH25 SgA of Tx line is 1.
DB1	TSGB25 (Tx SGB ch25)	Indicates that CH25 SgB of Tx line is 1.
DB2	TSGC25 (Tx SGC ch25)	Indicates that CH25 SgC of Tx line is 1.
DB3	TSGD25 (Tx SGD ch25)	Indicates that CH25 SgD of Tx line is 1.
DB4	TSGA26 (Tx SGA ch26)	Indicates that CH26 SgA of Tx line is 1.
DB5	TSGB26 (Tx SGB ch26)	Indicates that CH26 SgB of Tx line is 1.
DB6	TSGC26 (Tx SGC ch26)	Indicates that CH26 SgC of Tx line is 1.
DB7	TSGD26 (Tx SGD ch26)	Indicates that CH26 SgD of Tx line is 1.
DB8	TSGA27 (Tx SGA ch27)	Indicates that CH27 SgA of Tx line is 1.
DB9	TSGB27 (Tx SGB ch27)	Indicates that CH27 SgB of Tx line is 1.
DB10	TSGC27 (Tx SGC ch27)	Indicates that CH27 SgC of Tx line is 1.
DB11	TSGD27 (Tx SGD ch27)	Indicates that CH27 SgD of Tx line is 1.

■ TXSBit10 Status Register

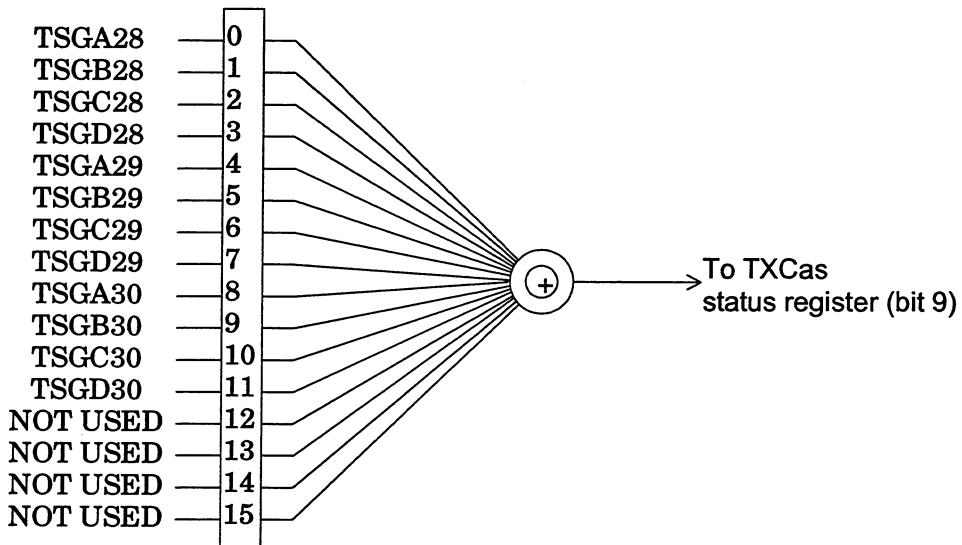


Fig. 7.4-30 TXSBit10 Status Register

Table 7.4-31 Bit Definition of TXSBit10 Status Register

Bit	Mnemonic	Description
DB0	TSGA28 (Tx SGA ch28)	Indicates that CH28 SgA of Tx line is 1.
DB1	TSGB28 (Tx SGB ch28)	Indicates that CH28 SgB of Tx line is 1.
DB2	TSGC28 (Tx SGC ch28)	Indicates that CH28 SgC of Tx line is 1.
DB3	TSGD28 (Tx SGD ch28)	Indicates that CH28 SgD of Tx line is 1.
DB4	TSGA29 (Tx SGA ch29)	Indicates that CH29 SgA of Tx line is 1.
DB5	TSGB29 (Tx SGB ch29)	Indicates that CH29 SgB of Tx line is 1.
DB6	TSGC29 (Tx SGC ch29)	Indicates that CH29 SgC of Tx line is 1.
DB7	TSGD29 (Tx SGD ch29)	Indicates that CH29 SgD of Tx line is 1.
DB8	TSGA30 (Tx SGA ch30)	Indicates that CH30 SgA of Tx line is 1.
DB9	TSGB30 (Tx SGB ch30)	Indicates that CH30 SgB of Tx line is 1.
DB10	TSGC30 (Tx SGC ch30)	Indicates that CH30 SgC of Tx line is 1.
DB11	TSGD30 (Tx SGD ch30)	Indicates that CH30 SgD of Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXCas Status Register

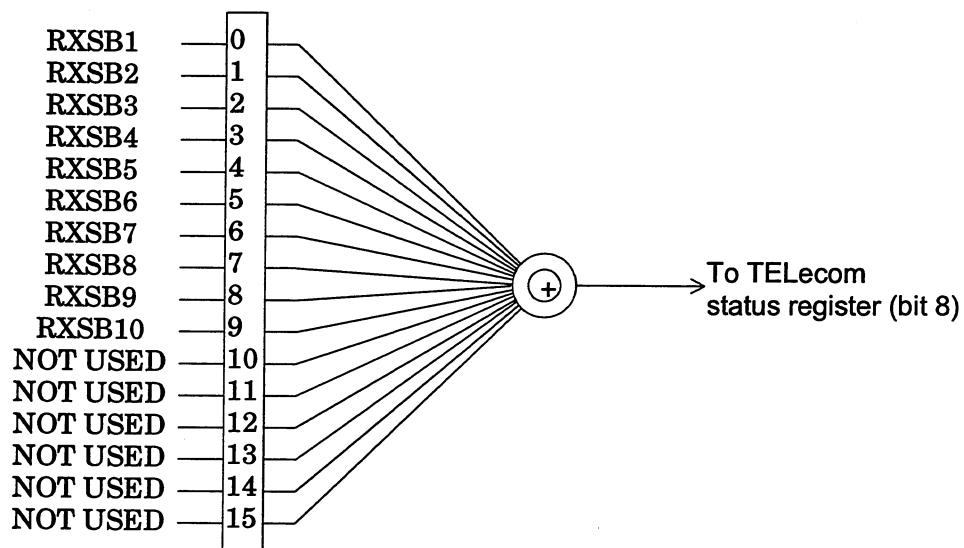


Fig. 7.4-31 RXCas Status Register

Table 7.4-32 Bit Definition of RXCas Status Register

Bit	Mnemonic	Description
DB0	RXSB1 (RXSBit1 status register summary)	RXSBit1 Status Register Summary
DB1	RXSB2 (RXSBit2 status register summary)	RXSBit2 Status Register Summary
DB2	RXSB3 (RXSBit3 status register summary)	RXSBit3 Status Register Summary
DB3	RXSB4 (RXSBit4 status register summary)	RXSBit4 Status Register Summary
DB4	RXSB5 (RXSBit5 status register summary)	RXSBit5 Status Register Summary
DB5	RXSB6 (RXSBit6 status register summary)	RXSBit6 Status Register Summary
DB6	RXSB7 (RXSBit7 status register summary)	RXSBit7 Status Register Summary
DB7	RXSB8 (RXSBit8 status register summary)	RXSBit8 Status Register Summary
DB8	RXSB9 (RXSBit9 status register summary)	RXSBit9 Status Register Summary
DB9	RXSB10 (RXSBit10 status register summary)	RXSBit10 Status Register Summary

■ RXSBit1 Status Register

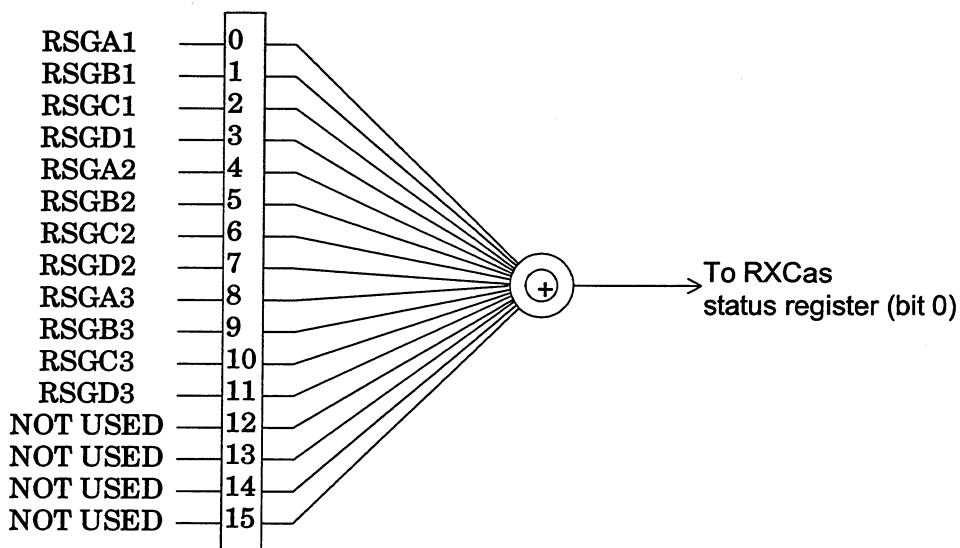


Fig. 7.4-32 RXSBit1 Status Register

Table 7.4-33 Bit Definition of RXSBit1 Status Register

Bit	Mnemonic	Description
DB0	TSGA1 (Rx SGA ch1)	Indicates that CH01 SgA of the reception line is 1.
DB1	TSGB1 (Rx SGB ch1)	Indicates that CH01 SgB of the reception line is 1.
DB2	TSGC1 (Rx SGC ch1)	Indicates that CH01 SgC of the reception line is 1.
DB3	TSGD1 (Rx SGD ch1)	Indicates that CH01 SgD of the reception line is 1.
DB4	TSGA2 (Rx SGA ch2)	Indicates that CH02 SgA of the reception line is 1.
DB5	TSGB2 (Rx SGB ch2)	Indicates that CH02 SgB of the reception line is 1.
DB6	TSGC2 (Rx SGC ch2)	Indicates that CH02 SgC of the reception line is 1.
DB7	TSGD2 (Rx SGD ch2)	Indicates that CH02 SgD of the reception line is 1.
DB8	TSGA3 (Rx SGA ch3)	Indicates that CH03 SgA of the reception line is 1.
DB9	TSGB3 (Rx SGB ch3)	Indicates that CH03 SgB of the reception line is 1.
DB10	TSGC3 (Rx SGC ch3)	Indicates that CH03 SgC of the reception line is 1.
DB11	TSGD3 (Rx SGD ch3)	Indicates that CH03 SgD of the reception line is 1.

## SECTION 7 STATUS REPORT

### ■ RXSBit2 Status Register

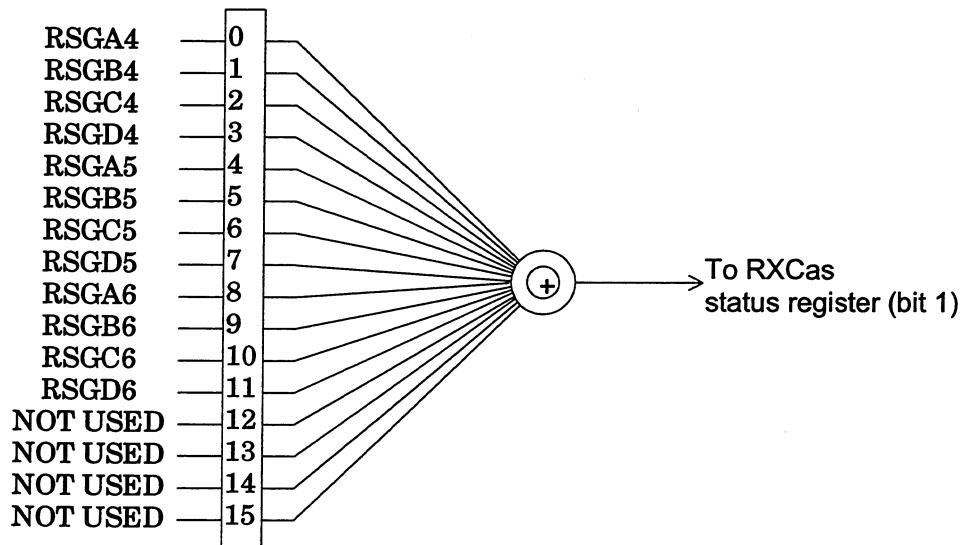


Fig. 7.4-33 RXSBit2 Status Register

Table 7.4-34 Bit Definition of RXSBit2 Status Register

Bit	Mnemonic	Description
DB0	TSGA4 (Rx SGA ch4)	Indicates that CH04 SgA of the reception line is 1.
DB1	TSGB4 (Rx SGB ch4)	Indicates that CH04 SgB of the reception line is 1.
DB2	TSGC4 (Rx SGC ch4)	Indicates that CH04 SgC of the reception line is 1.
DB3	TSGD4 (Rx SGD ch4)	Indicates that CH04 SgD of the reception line is 1.
DB4	TSGA5 (Rx SGA ch5)	Indicates that CH05 SgA of the reception line is 1.
DB5	TSGB5 (Rx SGB ch5)	Indicates that CH05 SgB of the reception line is 1.
DB6	TSGC5 (Rx SGC ch5)	Indicates that CH05 SgC of the reception line is 1.
DB7	TSGD5 (Rx SGD ch5)	Indicates that CH05 SgD of the reception line is 1.
DB8	TSGA6 (Rx SGA ch6)	Indicates that CH06 SgA of the reception line is 1.
DB9	TSGB6 (Rx SGB ch6)	Indicates that CH06 SgB of the reception line is 1.
DB10	TSGC6 (Rx SGC ch6)	Indicates that CH06 SgC of the reception line is 1.
DB11	TSGD6 (Rx SGD ch6)	Indicates that CH06 SgD of the reception line is 1.

■ RXSBit3 Status Register

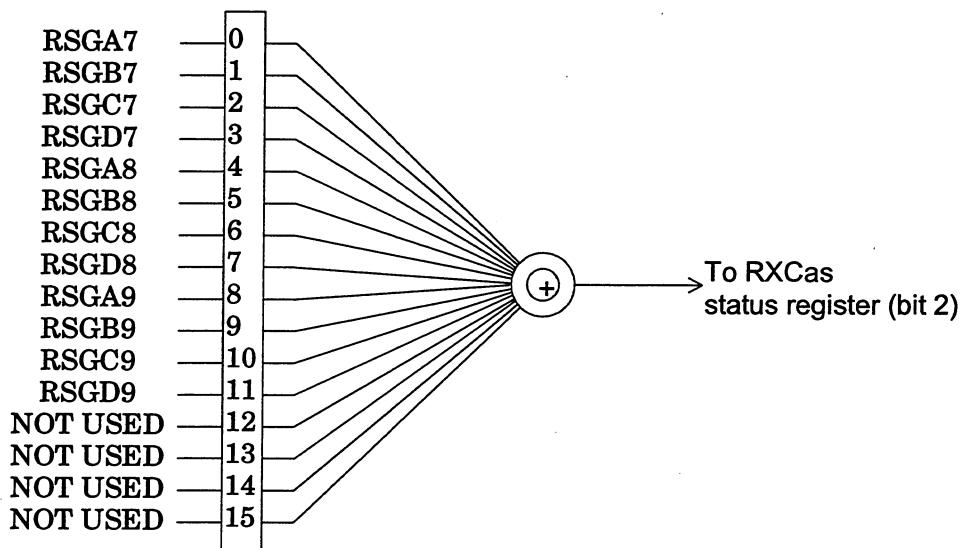


Fig. 7.4-34 RXSBit3 Status Register

Table 7.4-35 Bit Definition of RXSBit3 Status Register

Bit	Mnemonic	Description
DB0	TSGA7 (Rx SGA ch7)	Indicates that CH07 SgA of the reception line is 1.
DB1	TSGB7 (Rx SGB ch7)	Indicates that CH07 SgB of the reception line is 1.
DB2	TSGC7 (Rx SGC ch7)	Indicates that CH07 SgC of the reception line is 1.
DB3	TSGD7 (Rx SGD ch7)	Indicates that CH07 SgD of the reception line is 1.
DB4	TSGA8 (Rx SGA ch8)	Indicates that CH08 SgA of the reception line is 1.
DB5	TSGB8 (Rx SGB ch8)	Indicates that CH08 SgB of the reception line is 1.
DB6	TSGC8 (Rx SGC ch8)	Indicates that CH08 SgC of the reception line is 1.
DB7	TSGD8 (Rx SGD ch8)	Indicates that CH08 SgD of the reception line is 1.
DB8	TSGA9 (Rx SGA ch9)	Indicates that CH09 SgA of the reception line is 1.
DB9	TSGB9 (Rx SGB ch9)	Indicates that CH09 SgB of the reception line is 1.
DB10	TSGC9 (Rx SGC ch9)	Indicates that CH09 SgC of the reception line is 1.
DB11	TSGD9 (Rx SGD ch9)	Indicates that CH09 SgD of the reception line is 1.

## SECTION 7 STATUS REPORT

### ■ RXSBit4 Status Register

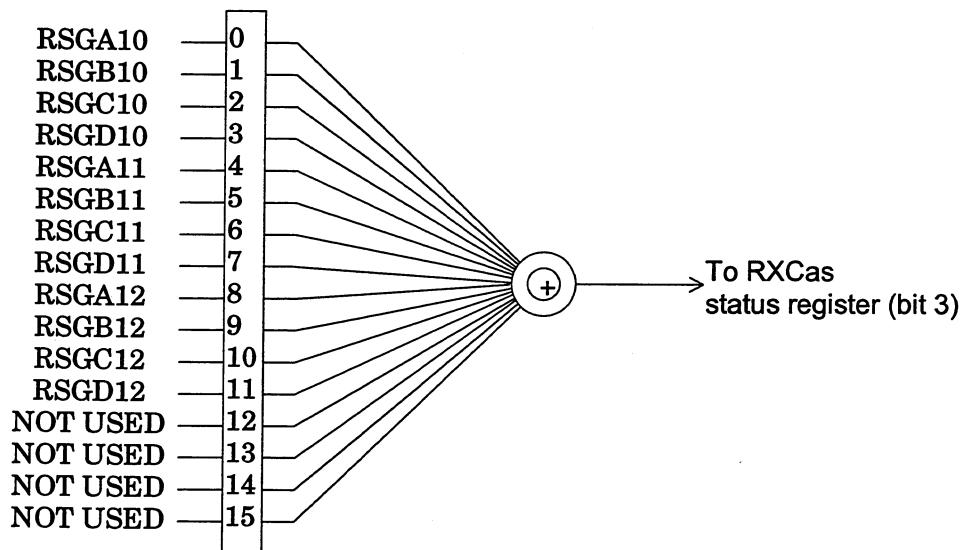


Fig. 7.4-35 RXSBit4 Status Register

Table 7.4-36 Bit Definition of RXSBit4 Status Register

Bit	Mnemonic	Description
DB0	TSGA10 (Rx SGA ch10)	Indicates that CH10 SgA of the reception line is 1.
DB1	TSGB10 (Rx SGB ch10)	Indicates that CH10 SgB of the reception line is 1.
DB2	TSGC10 (Rx SGC ch10)	Indicates that CH10 SgC of the reception line is 1.
DB3	TSGD10 (Rx SGD ch10)	Indicates that CH10 SgD of the reception line is 1.
DB4	TSGA11 (Rx SGA ch11)	Indicates that CH11 SgA of the reception line is 1.
DB5	TSGB11 (Rx SGB ch11)	Indicates that CH11 SgB of the reception line is 1.
DB6	TSGC11 (Rx SGC ch11)	Indicates that CH11 SgC of the reception line is 1.
DB7	TSGD11 (Rx SGD ch11)	Indicates that CH11 SgD of the reception line is 1.
DB8	TSGA12 (Rx SGA ch12)	Indicates that CH12 SgA of the reception line is 1.
DB9	TSGB12 (Rx SGB ch12)	Indicates that CH12 SgB of the reception line is 1.
DB10	TSGC12 (Rx SGC ch12)	Indicates that CH12 SgC of the reception line is 1.
DB11	TSGD12 (Rx SGD ch12)	Indicates that CH12 SgD of the reception line is 1.

■ RXSBit5 Status Register

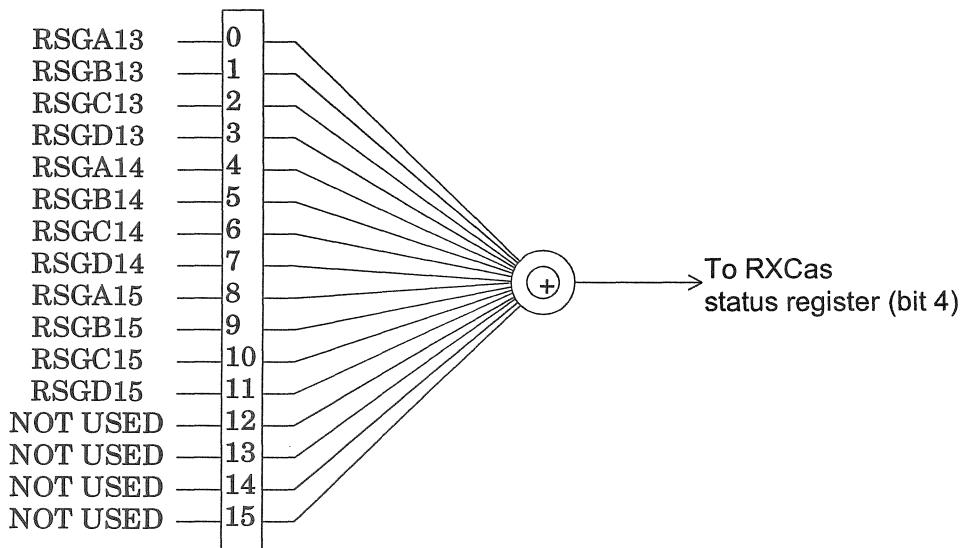


Fig. 7.4-36 RXSBit5 Status Register

Table 7.4-37 Bit Definition of RXSBit5 Status Register

Bit	Mnemonic	Description
DB0	TSGA13 (Rx SGA ch13)	Indicates that CH13 SgA of the reception line is 1.
DB1	TSGB13 (Rx SGB ch13)	Indicates that CH13 SgB of the reception line is 1.
DB2	TSGC13 (Rx SGC ch13)	Indicates that CH13 SgC of the reception line is 1.
DB3	TSGD13 (Rx SGD ch13)	Indicates that CH13 SgD of the reception line is 1.
DB4	TSGA14 (Rx SGA ch14)	Indicates that CH14 SgA of the reception line is 1.
DB5	TSGB14 (Rx SGB ch14)	Indicates that CH14 SgB of the reception line is 1.
DB6	TSGC14 (Rx SGC ch14)	Indicates that CH14 SgC of the reception line is 1.
DB7	TSGD14 (Rx SGD ch14)	Indicates that CH14 SgD of the reception line is 1.
DB8	TSGA15 (Rx SGA ch15)	Indicates that CH15 SgA of the reception line is 1.
DB9	TSGB15 (Rx SGB ch15)	Indicates that CH15 SgB of the reception line is 1.
DB10	TSGC15 (Rx SGC ch15)	Indicates that CH15 SgC of the reception line is 1.
DB11	TSGD15 (Rx SGD ch15)	Indicates that CH15 SgD of the reception line is 1.

## SECTION 7 STATUS REPORT

### ■ RXSBit6 Status Register

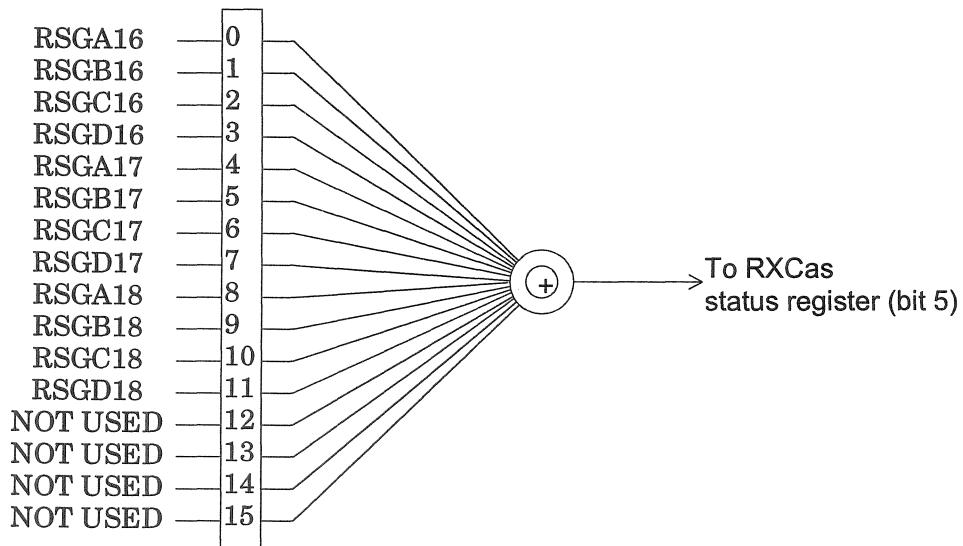


Fig. 7.4-37 RXSBit6 Status Register

Table 7.4-38 Bit Definition of RXSBit6 Status Register

Bit	Mnemonic	Description
DB0	TSGA16 (Rx SGA ch16)	Indicates that CH16 SgA of the reception line is 1.
DB1	TSGB16 (Rx SGB ch16)	Indicates that CH16 SgB of the reception line is 1.
DB2	TSGC16 (Rx SGC ch16)	Indicates that CH16 SgC of the reception line is 1.
DB3	TSGD16 (Rx SGD ch16)	Indicates that CH16 SgD of the reception line is 1.
DB4	TSGA17 (Rx SGA ch17)	Indicates that CH17 SgA of the reception line is 1.
DB5	TSGB17 (Rx SGB ch17)	Indicates that CH17 SgB of the reception line is 1.
DB6	TSGC17 (Rx SGC ch17)	Indicates that CH17 SgC of the reception line is 1.
DB7	TSGD17 (Rx SGD ch17)	Indicates that CH17 SgD of the reception line is 1.
DB8	TSGA18 (Rx SGA ch18)	Indicates that CH18 SgA of the reception line is 1.
DB9	TSGB18 (Rx SGB ch18)	Indicates that CH18 SgB of the reception line is 1.
DB10	TSGC18 (Rx SGC ch18)	Indicates that CH18 SgC of the reception line is 1.
DB11	TSGD18 (Rx SGD ch18)	Indicates that CH18 SgD of the reception line is 1.

■ RXSBit7 Status Register

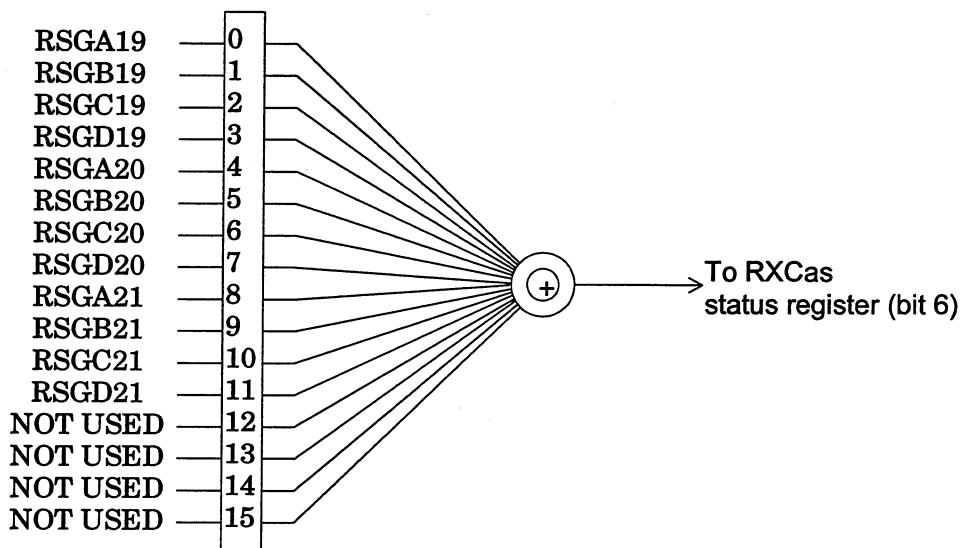


Fig. 7.4-38 RXSBit7 Status Register

Table 7.4-39 Bit Definition of RXSBit7 Status Register

Bit	Mnemonic	Description
DB0	TSGA19 (Rx SGA ch19)	Indicates that CH19 SgA of the reception line is 1.
DB1	TSGB19 (Rx SGB ch19)	Indicates that CH19 SgB of the reception line is 1.
DB2	TSGC19 (Rx SGC ch19)	Indicates that CH19 SgC of the reception line is 1.
DB3	TSGD19 (Rx SGD ch19)	Indicates that CH19 SgD of the reception line is 1.
DB4	TSGA20 (Rx SGA ch20)	Indicates that CH20 SgA of the reception line is 1.
DB5	TSGB20 (Rx SGB ch20)	Indicates that CH20 SgB of the reception line is 1.
DB6	TSGC20 (Rx SGC ch20)	Indicates that CH20 SgC of the reception line is 1.
DB7	TSGD20 (Rx SGD ch20)	Indicates that CH20 SgD of the reception line is 1.
DB8	TSGA21 (Rx SGA ch21)	Indicates that CH21 SgA of the reception line is 1.
DB9	TSGB21 (Rx SGB ch21)	Indicates that CH21 SgB of the reception line is 1.
DB10	TSGC21 (Rx SGC ch21)	Indicates that CH21 SgC of the reception line is 1.
DB11	TSGD21 (Rx SGD ch21)	Indicates that CH21 SgD of the reception line is 1.

## SECTION 7 STATUS REPORT

### ■ RXSBit8 Status Register

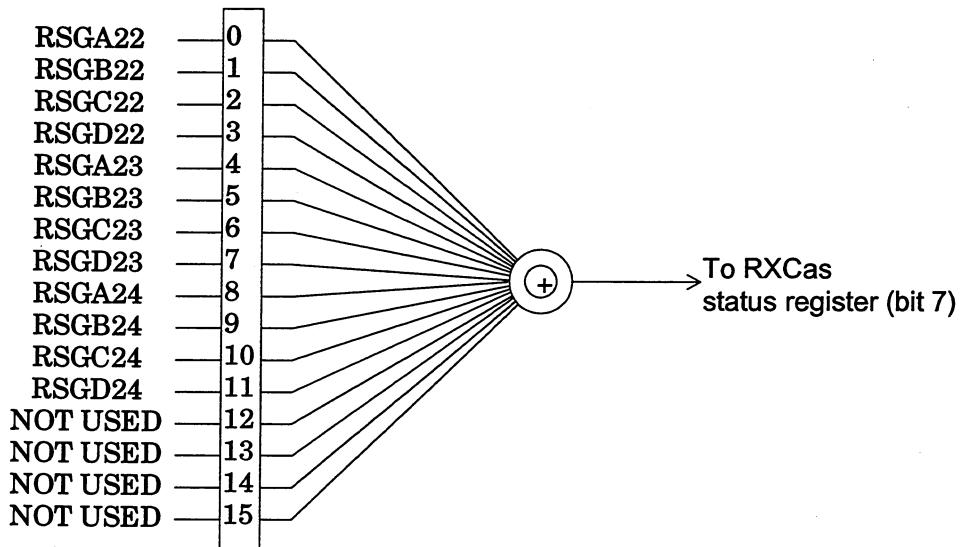


Fig. 7.4-39 RXSBit8 Status Register

Table 7.4-40 Bit Definition of RXSBit8 Status Register

Bit	Mnemonic	Description
DB0	TSGA22 (Rx SGA ch22)	Indicates that CH22 SgA of the reception line is 1.
DB1	TSGB22 (Rx SGB ch22)	Indicates that CH22 SgB of the reception line is 1.
DB2	TSGC22 (Rx SGC ch22)	Indicates that CH22 SgC of the reception line is 1.
DB3	TSGD22 (Rx SGD ch22)	Indicates that CH22 SgD of the reception line is 1.
DB4	TSGA23 (Rx SGA ch23)	Indicates that CH23 SgA of the reception line is 1.
DB5	TSGB23 (Rx SGB ch23)	Indicates that CH23 SgB of the reception line is 1.
DB6	TSGC23 (Rx SGC ch23)	Indicates that CH23 SgC of the reception line is 1.
DB7	TSGD23 (Rx SGD ch23)	Indicates that CH23 SgD of the reception line is 1.
DB8	TSGA24 (Rx SGA ch24)	Indicates that CH24 SgA of the reception line is 1.
DB9	TSGB24 (Rx SGB ch24)	Indicates that CH24 SgB of the reception line is 1.
DB10	TSGC24 (Rx SGC ch24)	Indicates that CH24 SgC of the reception line is 1.
DB11	TSGD24 (Rx SGD ch24)	Indicates that CH24 SgD of the reception line is 1.

■ RXSBit9 Status Register

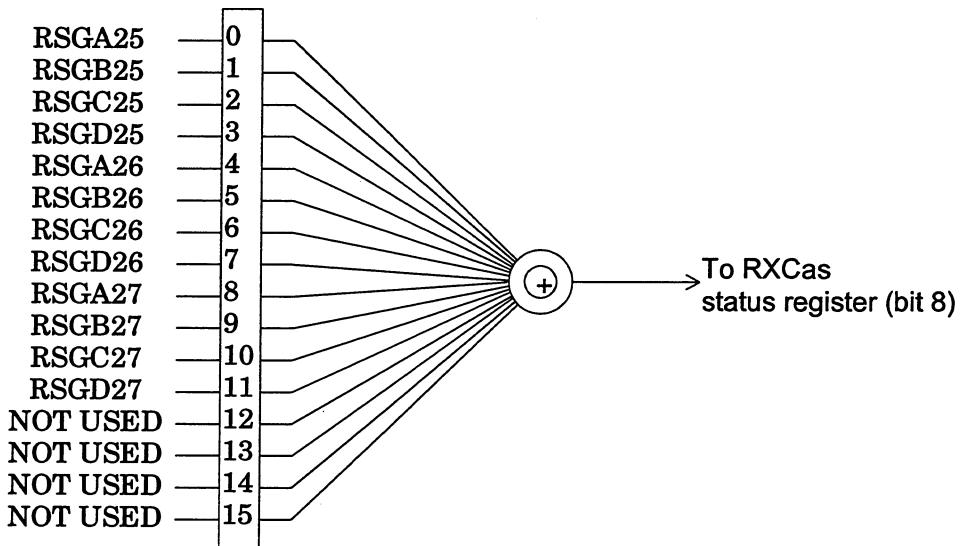


Fig. 7.4-40 RXSBit9 Status Register

Table 7.4-41 Bit Definition of RXSBit9 Status Register

Bit	Mnemonic	Description
DB0	TSGA25 (Rx SGA ch25)	Indicates that CH25 SgA of the reception line is 1.
DB1	TSGB25 (Rx SGB ch25)	Indicates that CH25 SgB of the reception line is 1.
DB2	TSGC25 (Rx SGC ch25)	Indicates that CH25 SgC of the reception line is 1.
DB3	TSGD25 (Rx SGD ch25)	Indicates that CH25 SgD of the reception line is 1.
DB4	TSGA26 (Rx SGA ch26)	Indicates that CH26 SgA of the reception line is 1.
DB5	TSGB26 (Rx SGB ch26)	Indicates that CH26 SgB of the reception line is 1.
DB6	TSGC26 (Rx SGC ch26)	Indicates that CH26 SgC of the reception line is 1.
DB7	TSGD26 (Rx SGD ch26)	Indicates that CH26 SgD of the reception line is 1.
DB8	TSGA27 (Rx SGA ch27)	Indicates that CH27 SgA of the reception line is 1.
DB9	TSGB27 (Rx SGB ch27)	Indicates that CH27 SgB of the reception line is 1.
DB10	TSGC27 (Rx SGC ch27)	Indicates that CH27 SgC of the reception line is 1.
DB11	TSGD27 (Rx SGD ch27)	Indicates that CH27 SgD of the reception line is 1.

## SECTION 7 STATUS REPORT

### ■ RXSBit10 Status Register

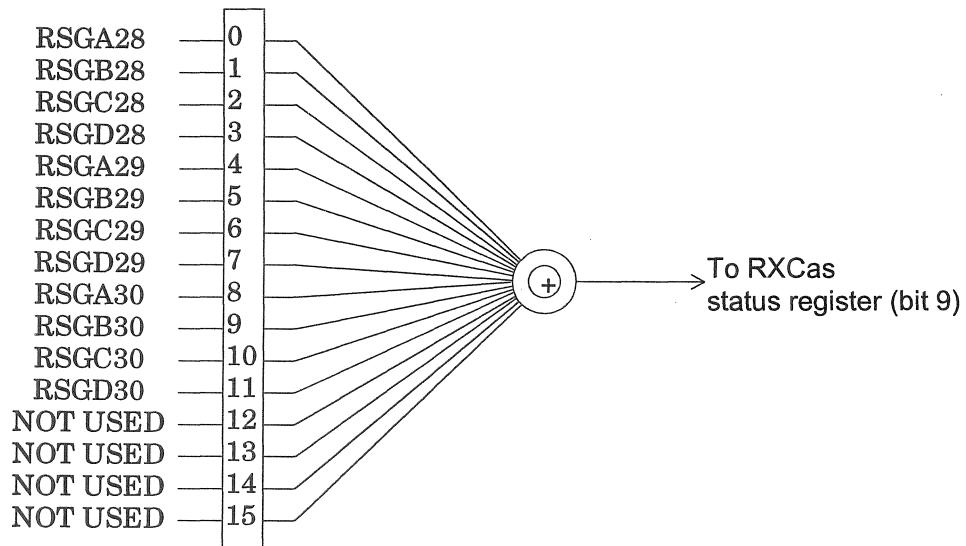


Fig. 7.4-41 RXSBit10 Status Register

Table 7.4-42 Bit Definition of RXSBit10 Status Register

Bit	Mnemonic	Description
DB0	TSGA28 (Rx SGA ch28)	Indicates that CH28 SgA of the reception line is 1.
DB1	TSGB28 (Rx SGB ch28)	Indicates that CH28 SgB of the reception line is 1.
DB2	TSGC28 (Rx SGC ch28)	Indicates that CH28 SgC of the reception line is 1.
DB3	TSGD28 (Rx SGD ch28)	Indicates that CH28 SgD of the reception line is 1.
DB4	TSGA29 (Rx SGA ch29)	Indicates that CH29 SgA of the reception line is 1.
DB5	TSGB29 (Rx SGB ch29)	Indicates that CH29 SgB of the reception line is 1.
DB6	TSGC29 (Rx SGC ch29)	Indicates that CH29 SgC of the reception line is 1.
DB7	TSGD29 (Rx SGD ch29)	Indicates that CH29 SgD of the reception line is 1.
DB8	TSGA30 (Rx SGA ch30)	Indicates that CH30 SgA of the reception line is 1.
DB9	TSGB30 (Rx SGB ch30)	Indicates that CH30 SgB of the reception line is 1.
DB10	TSGC30 (Rx SGC ch30)	Indicates that CH30 SgC of the reception line is 1.
DB11	TSGD30 (Rx SGD ch30)	Indicates that CH30 SgD of the reception line is 1.

■ TXFas1 Status Register

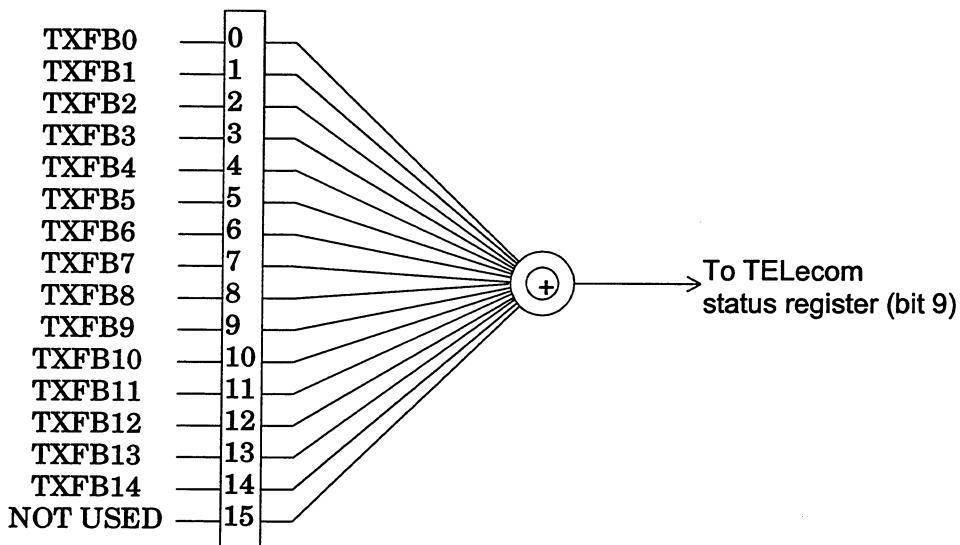


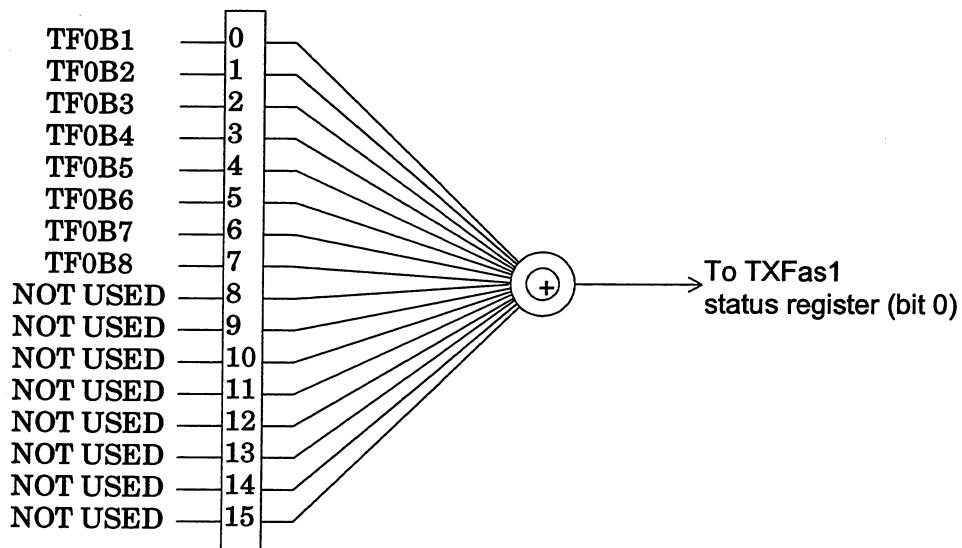
Fig. 7.4-42 TXFas1 Status Register

Table 7.4-43 Bit Definition of TXFas1 Status Register

Bit	Mnemonic	Description
DB0	TXFB0 (TXFBit0 status register summary)	TXFBit0 Status Register Summary
DB1	TXFB1 (TXFBit1 status register summary)	TXFBit1 Status Register Summary
DB2	TXFB2 (TXFBit2 status register summary)	TXFBit2 Status Register Summary
DB3	TXFB3 (TXFBit3 status register summary)	TXFBit3 Status Register Summary
DB4	TXFB4 (TXFBit4 status register summary)	TXFBit4 Status Register Summary
DB5	TXFB5 (TXFBit5 status register summary)	TXFBit5 Status Register Summary
DB6	TXFB6 (TXFBit6 status register summary)	TXFBit6 Status Register Summary
DB7	TXFB7 (TXFBit7 status register summary)	TXFBit7 Status Register Summary
DB8	TXFB8 (TXFBit8 status register summary)	TXFBit8 Status Register Summary
DB9	TXFB9 (TXFBit9 status register summary)	TXFBit9 Status Register Summary
DB10	TXFB10 (TXFBit10 status register summary)	TXFBit10 Status Register Summary
DB11	TXFB11 (TXFBit11 status register summary)	TXFBit11 Status Register Summary
DB12	TXFB12 (TXFBit12 status register summary)	TXFBit12 Status Register Summary
DB13	TXFB13 (TXFBit13 status register summary)	TXFBit13 Status Register Summary
DB14	TXFB14 (TXFBit14 status register summary)	TXFBit14 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ TXFBIT0 Status Register



**Fig. 7.4-43 TXFBIT0 Status Register**

**Table 7.4-44 Bit Definition of TXFBIT0 Status Register**

Bit	Mnemonic	Description
DB0	TF0B1 (Tx Frame0 Bit1)	Indicates that bit 1 of frame 0 in Tx line is 1.
DB1	TF0B2 (Tx Frame0 Bit2)	Indicates that bit 2 of frame 0 in Tx line is 1.
DB2	TF0B3 (Tx Frame0 Bit3)	Indicates that bit 3 of frame 0 in Tx line is 1.
DB3	TF0B4 (Tx Frame0 Bit4)	Indicates that bit 4 of frame 0 in Tx line is 1.
DB4	TF0B5 (Tx Frame0 Bit5)	Indicates that bit 5 of frame 0 in Tx line is 1.
DB5	TF0B6 (Tx Frame0 Bit6)	Indicates that bit 6 of frame 0 in Tx line is 1.
DB6	TF0B7 (Tx Frame0 Bit7)	Indicates that bit 7 of frame 0 in Tx line is 1.
DB7	TF0B8 (Tx Frame0 Bit8)	Indicates that bit 8 of frame 0 in Tx line is 1.

■ TXFBIT1 Status Register

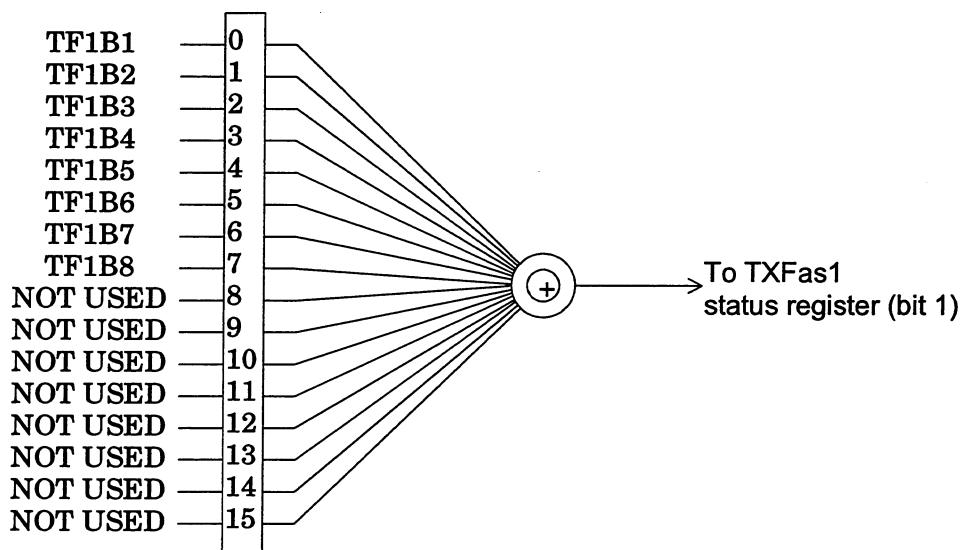


Fig. 7.4-44 TXFBIT1 Status Register

Table 7.4-45 Bit Definition of TXFBIT1 Status Register

Bit	Mnemonic	Description
DB0	TF1B1 (Tx Frame1 Bit1)	Indicates that bit 1 of frame 1 in Tx line is 1.
DB1	TF1B2 (Tx Frame1 Bit2)	Indicates that bit 2 of frame 1 in Tx line is 1.
DB2	TF1B3 (Tx Frame1 Bit3)	Indicates that bit 3 of frame 1 in Tx line is 1.
DB3	TF1B4 (Tx Frame1 Bit4)	Indicates that bit 4 of frame 1 in Tx line is 1.
DB4	TF1B5 (Tx Frame1 Bit5)	Indicates that bit 5 of frame 1 in Tx line is 1.
DB5	TF1B6 (Tx Frame1 Bit6)	Indicates that bit 6 of frame 1 in Tx line is 1.
DB6	TF1B7 (Tx Frame1 Bit7)	Indicates that bit 7 of frame 1 in Tx line is 1.
DB7	TF1B8 (Tx Frame1 Bit8)	Indicates that bit 8 of frame 1 in Tx line is 1.

## SECTION 7 STATUS REPORT

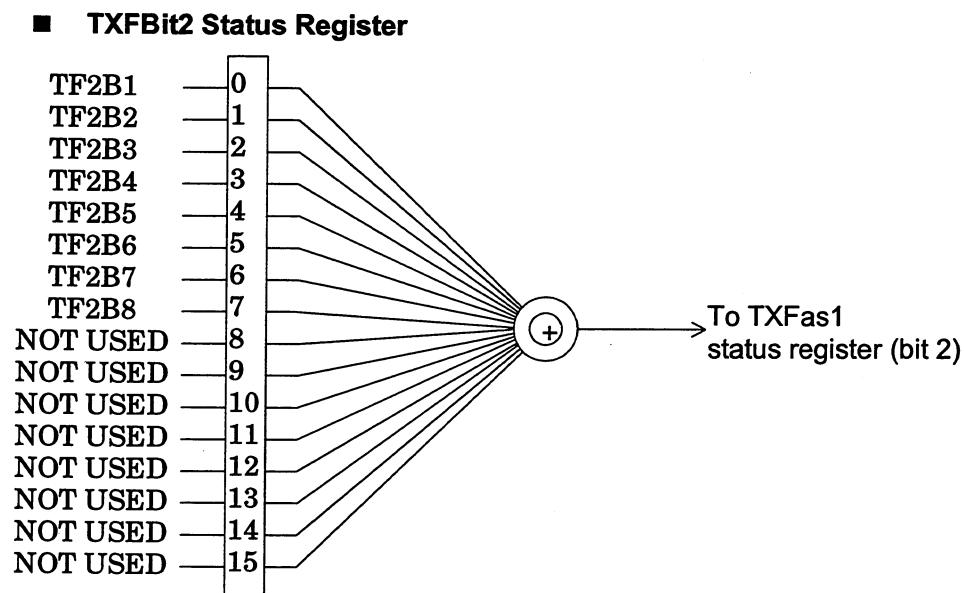


Fig. 7.4-45 TXFBit2 Status Register

Table 7.4-46 Bit Definition of TXFBit2 Status Register

Bit	Mnemonic	Description
DB0	TF2B1 (Tx Frame2 Bit1)	Indicates that bit 1 of frame 2 in Tx line is 1.
DB1	TF2B2 (Tx Frame2 Bit2)	Indicates that bit 2 of frame 2 in Tx line is 1.
DB2	TF2B3 (Tx Frame2 Bit3)	Indicates that bit 3 of frame 2 in Tx line is 1.
DB3	TF2B4 (Tx Frame2 Bit4)	Indicates that bit 4 of frame 2 in Tx line is 1.
DB4	TF2B5 (Tx Frame2 Bit5)	Indicates that bit 5 of frame 2 in Tx line is 1.
DB5	TF2B6 (Tx Frame2 Bit6)	Indicates that bit 6 of frame 2 in Tx line is 1.
DB6	TF2B7 (Tx Frame2 Bit7)	Indicates that bit 7 of frame 2 in Tx line is 1.
DB7	TF2B8 (Tx Frame2 Bit8)	Indicates that bit 8 of frame 2 in Tx line is 1.

■ TXFBIT3 Status Register

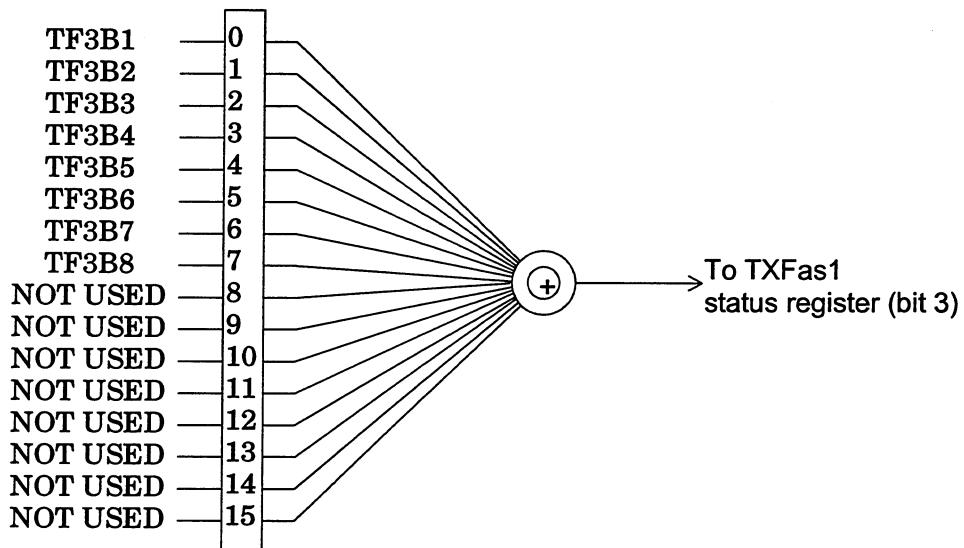
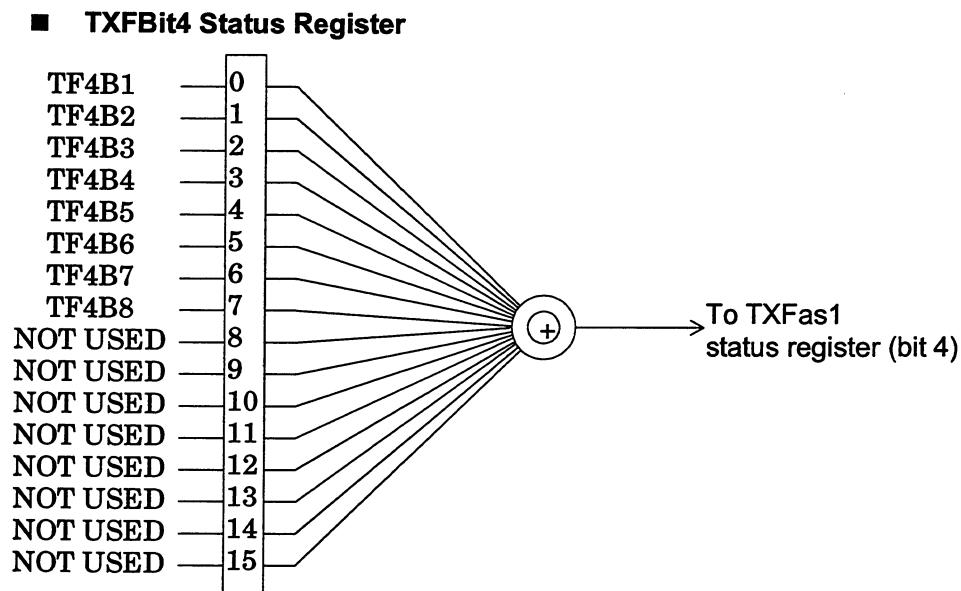


Fig. 7.4-46 TXFBIT3 Status Register

Table 7.4-47 Bit Definition of TXFBIT3 Status Register

Bit	Mnemonic	Description
DB0	TF3B1 (Tx Frame3 Bit1)	Indicates that bit 1 of frame 3 in Tx line is 1.
DB1	TF3B2 (Tx Frame3 Bit2)	Indicates that bit 2 of frame 3 in Tx line is 1.
DB2	TF3B3 (Tx Frame3 Bit3)	Indicates that bit 3 of frame 3 in Tx line is 1.
DB3	TF3B4 (Tx Frame3 Bit4)	Indicates that bit 4 of frame 3 in Tx line is 1.
DB4	TF3B5 (Tx Frame3 Bit5)	Indicates that bit 5 of frame 3 in Tx line is 1.
DB5	TF3B6 (Tx Frame3 Bit6)	Indicates that bit 6 of frame 3 in Tx line is 1.
DB6	TF3B7 (Tx Frame3 Bit7)	Indicates that bit 7 of frame 3 in Tx line is 1.
DB7	TF3B8 (Tx Frame3 Bit8)	Indicates that bit 8 of frame 3 in Tx line is 1.

## SECTION 7 STATUS REPORT



**Fig. 7.4-47 TXFBit4 Status Register**

**Table 7.4-48 Bit Definition of TXFBit4 Status Register**

Bit	Mnemonic	Description
DB0	TF4B1 (Tx Frame4 Bit1)	Indicates that bit 1 of frame 4 in Tx line is 1.
DB1	TF4B2 (Tx Frame4 Bit2)	Indicates that bit 2 of frame 4 in Tx line is 1.
DB2	TF4B3 (Tx Frame4 Bit3)	Indicates that bit 3 of frame 4 in Tx line is 1.
DB3	TF4B4 (Tx Frame4 Bit4)	Indicates that bit 4 of frame 4 in Tx line is 1.
DB4	TF4B5 (Tx Frame4 Bit5)	Indicates that bit 5 of frame 4 in Tx line is 1.
DB5	TF4B6 (Tx Frame4 Bit6)	Indicates that bit 6 of frame 4 in Tx line is 1.
DB6	TF4B7 (Tx Frame4 Bit7)	Indicates that bit 7 of frame 4 in Tx line is 1.
DB7	TF4B8 (Tx Frame4 Bit8)	Indicates that bit 8 of frame 4 in Tx line is 1.

■ TXFBIT5 Status Register

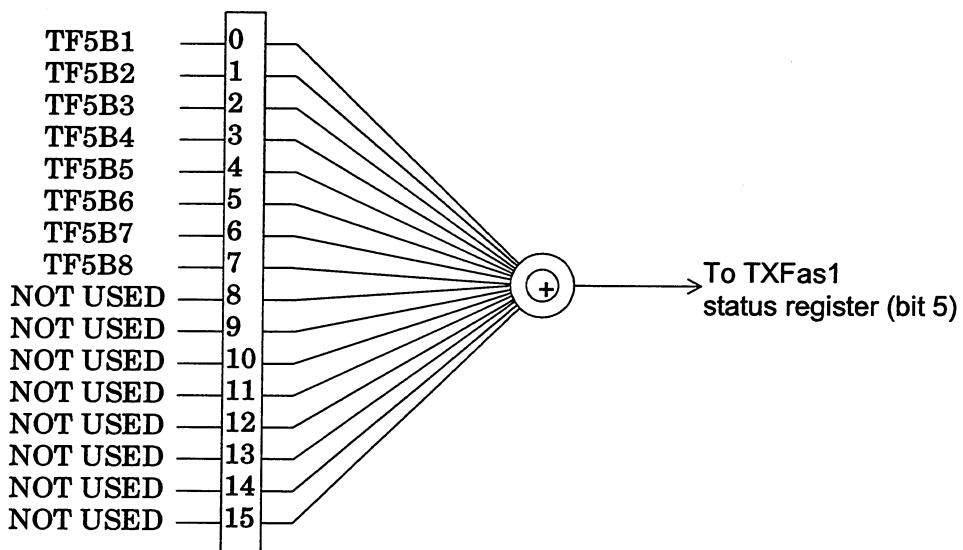


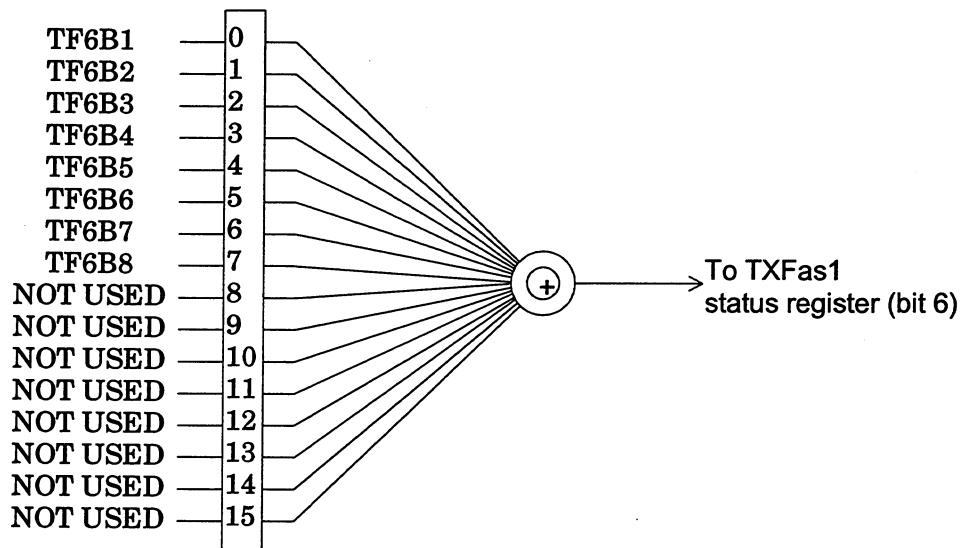
Fig. 7.4-48 TXFBIT5 Status Register

Table 7.4-49 Bit Definition of TXFBIT5 Status Register

Bit	Mnemonic	Description
DB0	TF5B1 (Tx Frame5 Bit1)	Indicates that bit 1 of frame 5 in Tx line is 1.
DB1	TF5B2 (Tx Frame5 Bit2)	Indicates that bit 2 of frame 5 in Tx line is 1.
DB2	TF5B3 (Tx Frame5 Bit3)	Indicates that bit 3 of frame 5 in Tx line is 1.
DB3	TF5B4 (Tx Frame5 Bit4)	Indicates that bit 4 of frame 5 in Tx line is 1.
DB4	TF5B5 (Tx Frame5 Bit5)	Indicates that bit 5 of frame 5 in Tx line is 1.
DB5	TF5B6 (Tx Frame5 Bit6)	Indicates that bit 6 of frame 5 in Tx line is 1.
DB6	TF5B7 (Tx Frame5 Bit7)	Indicates that bit 7 of frame 5 in Tx line is 1.
DB7	TF5B8 (Tx Frame5 Bit8)	Indicates that bit 8 of frame 5 in Tx line is 1.

## **SECTION 7 STATUS REPORT**

## ■ TXFBit6 Status Register



**Fig. 7.4-49 TXFBit6 Status Register**

**Table 7.4-50 Bit Definition of TXFBit6 Status Register**

<b>Bit</b>	<b>Mnemonic</b>	<b>Description</b>
DB0	TF6B1 (Tx Frame6 Bit1)	Indicates that bit 1 of frame 6 in Tx line is 1.
DB1	TF6B2 (Tx Frame6 Bit2)	Indicates that bit 2 of frame 6 in Tx line is 1.
DB2	TF6B3 (Tx Frame6 Bit3)	Indicates that bit 3 of frame 6 in Tx line is 1.
DB3	TF6B4 (Tx Frame6 Bit4)	Indicates that bit 4 of frame 6 in Tx line is 1.
DB4	TF6B5 (Tx Frame6 Bit5)	Indicates that bit 5 of frame 6 in Tx line is 1.
DB5	TF6B6 (Tx Frame6 Bit6)	Indicates that bit 6 of frame 6 in Tx line is 1.
DB6	TF6B7 (Tx Frame6 Bit7)	Indicates that bit 7 of frame 6 in Tx line is 1.
DB7	TF6B8 (Tx Frame6 Bit8)	Indicates that bit 8 of frame 6 in Tx line is 1.

■ TXFBIT7 Status Register

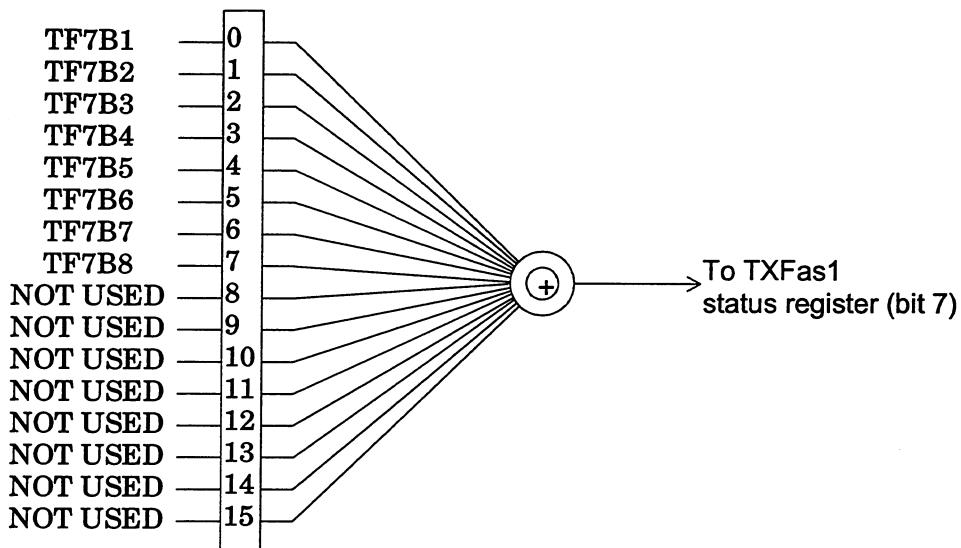


Fig. 7.4-50 TXFBIT7 Status Register

Table 7.4-51 Bit Definition of TXFBIT7 Status Register

Bit	Mnemonic	Description
DB0	TF7B1 (Tx Frame7 Bit1)	Indicates that bit 1 of frame 7 in Tx line is 1.
DB1	TF7B2 (Tx Frame7 Bit2)	Indicates that bit 2 of frame 7 in Tx line is 1.
DB2	TF7B3 (Tx Frame7 Bit3)	Indicates that bit 3 of frame 7 in Tx line is 1.
DB3	TF7B4 (Tx Frame7 Bit4)	Indicates that bit 4 of frame 7 in Tx line is 1.
DB4	TF7B5 (Tx Frame7 Bit5)	Indicates that bit 5 of frame 7 in Tx line is 1.
DB5	TF7B6 (Tx Frame7 Bit6)	Indicates that bit 6 of frame 7 in Tx line is 1.
DB6	TF7B7 (Tx Frame7 Bit7)	Indicates that bit 7 of frame 7 in Tx line is 1.
DB7	TF7B8 (Tx Frame7 Bit8)	Indicates that bit 8 of frame 7 in Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXFBit8 Status Register

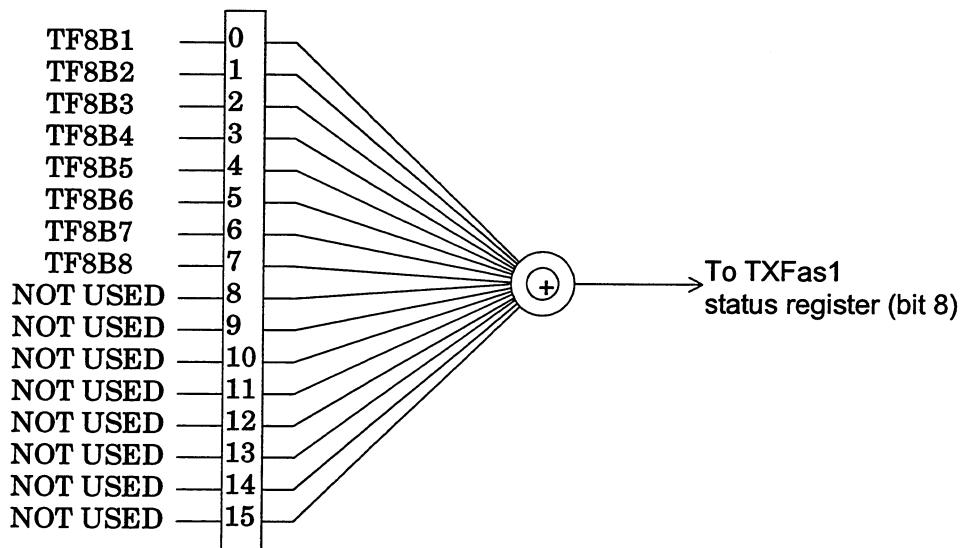


Fig. 7.4-51 TXFBit8 Status Register

Table 7.4-52 Bit Definition of TXFBit8 Status Register

Bit	Mnemonic	Description
DB0	TF8B1 (Tx Frame8 Bit1)	Indicates that bit 1 of frame 8 in Tx line is 1.
DB1	TF8B2 (Tx Frame8 Bit2)	Indicates that bit 2 of frame 8 in Tx line is 1.
DB2	TF8B3 (Tx Frame8 Bit3)	Indicates that bit 3 of frame 8 in Tx line is 1.
DB3	TF8B4 (Tx Frame8 Bit4)	Indicates that bit 4 of frame 8 in Tx line is 1.
DB4	TF8B5 (Tx Frame8 Bit5)	Indicates that bit 5 of frame 8 in Tx line is 1.
DB5	TF8B6 (Tx Frame8 Bit6)	Indicates that bit 6 of frame 8 in Tx line is 1.
DB6	TF8B7 (Tx Frame8 Bit7)	Indicates that bit 7 of frame 8 in Tx line is 1.
DB7	TF8B8 (Tx Frame8 Bit8)	Indicates that bit 8 of frame 8 in Tx line is 1.

■ TXFBIT9 Status Register

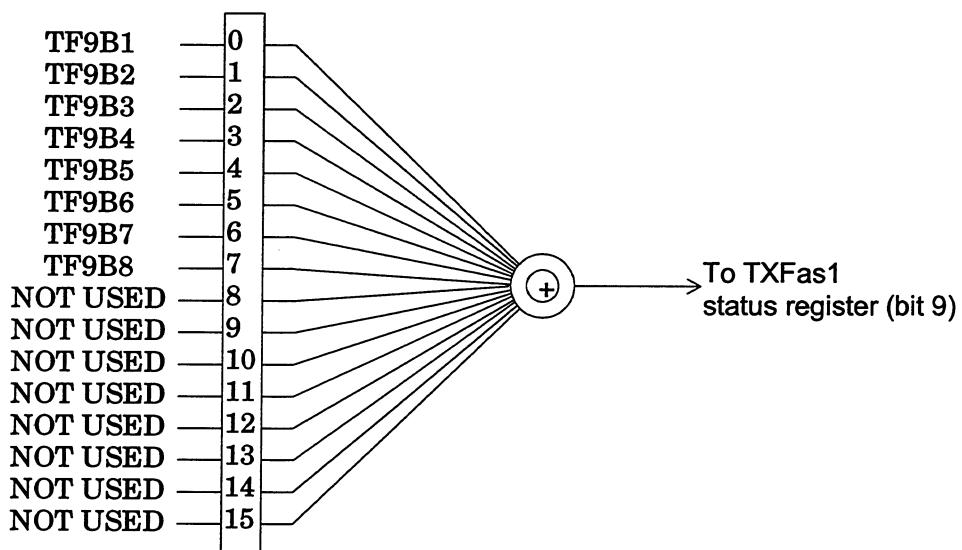


Fig. 7.4-52 TXFBIT9 Status Register

Table 7.4-53 Bit Definition of TXFBIT9 Status Register

Bit	Mnemonic	Description
DB0	TF9B1 (Tx Frame9 Bit1)	Indicates that bit 1 of frame 9 in Tx line is 1.
DB1	TF9B2 (Tx Frame9 Bit2)	Indicates that bit 2 of frame 9 in Tx line is 1.
DB2	TF9B3 (Tx Frame9 Bit3)	Indicates that bit 3 of frame 9 in Tx line is 1.
DB3	TF9B4 (Tx Frame9 Bit4)	Indicates that bit 4 of frame 9 in Tx line is 1.
DB4	TF9B5 (Tx Frame9 Bit5)	Indicates that bit 5 of frame 9 in Tx line is 1.
DB5	TF9B6 (Tx Frame9 Bit6)	Indicates that bit 6 of frame 9 in Tx line is 1.
DB6	TF9B7 (Tx Frame9 Bit7)	Indicates that bit 7 of frame 9 in Tx line is 1.
DB7	TF9B8 (Tx Frame9 Bit8)	Indicates that bit 8 of frame 9 in Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXFBit10 Status Register

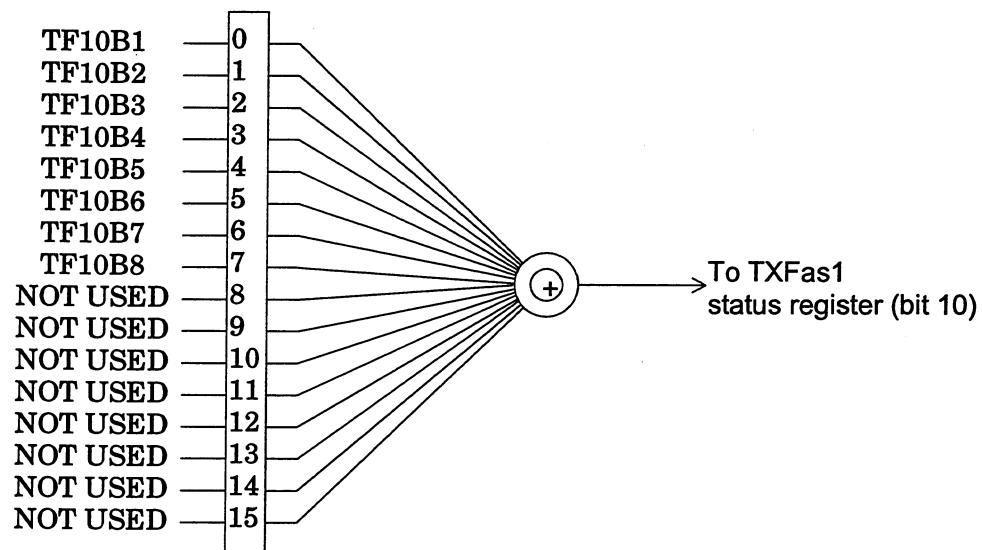


Fig. 7.4-53 TXFBit10 Status Register

Table 7.4-54 Bit Definition of TXFBit10 Status Register

Bit	Mnemonic	Description
DB0	TF10B1 (Tx Frame10 Bit1)	Indicates that bit 1 of frame 10 in Tx line is 1.
DB1	TF10B2 (Tx Frame10 Bit2)	Indicates that bit 2 of frame 10 in Tx line is 1.
DB2	TF10B3 (Tx Frame10 Bit3)	Indicates that bit 3 of frame 10 in Tx line is 1.
DB3	TF10B4 (Tx Frame10 Bit4)	Indicates that bit 4 of frame 10 in Tx line is 1.
DB4	TF10B5 (Tx Frame10 Bit5)	Indicates that bit 5 of frame 10 in Tx line is 1.
DB5	TF10B6 (Tx Frame10 Bit6)	Indicates that bit 6 of frame 10 in Tx line is 1.
DB6	TF10B7 (Tx Frame10 Bit7)	Indicates that bit 7 of frame 10 in Tx line is 1.
DB7	TF10B8 (Tx Frame10 Bit8)	Indicates that bit 8 of frame 10 in Tx line is 1.

■ TXFBit11 Status Register

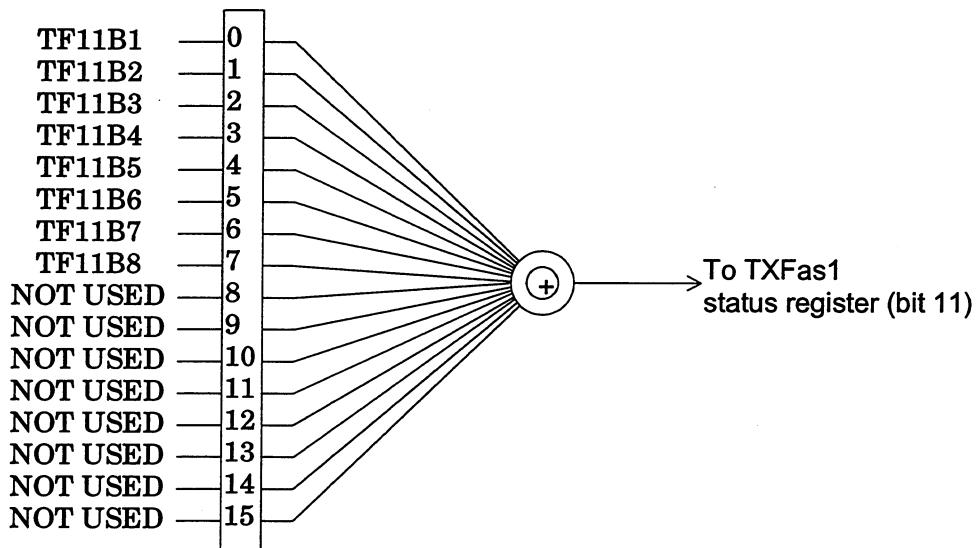


Fig. 7.4-54 TXFBit11 Status Register

Table 7.4-55 Bit Definition of TXFBit11 Status Register

Bit	Mnemonic	Description
DB0	TF11B1 (Tx Frame11 Bit1)	Indicates that bit 1 of frame 11 in Tx line is 1.
DB1	TF11B2 (Tx Frame11 Bit2)	Indicates that bit 2 of frame 11 in Tx line is 1.
DB2	TF11B3 (Tx Frame11 Bit3)	Indicates that bit 3 of frame 11 in Tx line is 1.
DB3	TF11B4 (Tx Frame11 Bit4)	Indicates that bit 4 of frame 11 in Tx line is 1.
DB4	TF11B5 (Tx Frame11 Bit5)	Indicates that bit 5 of frame 11 in Tx line is 1.
DB5	TF11B6 (Tx Frame11 Bit6)	Indicates that bit 6 of frame 11 in Tx line is 1.
DB6	TF11B7 (Tx Frame11 Bit7)	Indicates that bit 7 of frame 11 in Tx line is 1.
DB7	TF11B8 (Tx Frame11 Bit8)	Indicates that bit 8 of frame 11 in Tx line is 1.

## SECTION 7 STATUS REPORT

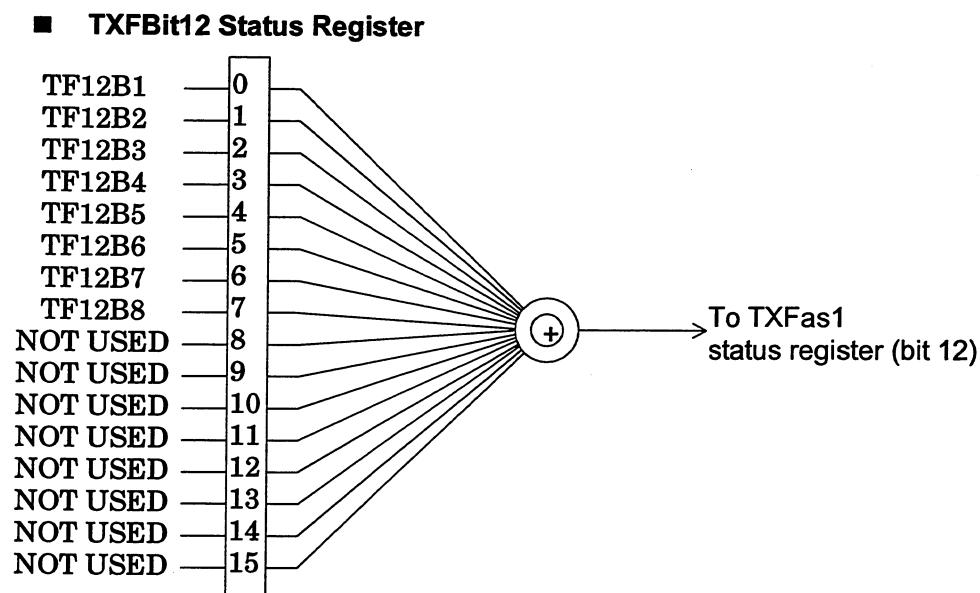


Fig. 7.4-55 TXFBit12 Status Register

Table 7.4-56 Bit Definition of TXFBit12 Status Register

Bit	Mnemonic	Description
DB0	TF12B1 (Tx Frame12 Bit1)	Indicates that bit 1 of frame 12 in Tx line is 1.
DB1	TF12B2 (Tx Frame12 Bit2)	Indicates that bit 2 of frame 12 in Tx line is 1.
DB2	TF12B3 (Tx Frame12 Bit3)	Indicates that bit 3 of frame 12 in Tx line is 1.
DB3	TF12B4 (Tx Frame12 Bit4)	Indicates that bit 4 of frame 12 in Tx line is 1.
DB4	TF12B5 (Tx Frame12 Bit5)	Indicates that bit 5 of frame 12 in Tx line is 1.
DB5	TF12B6 (Tx Frame12 Bit6)	Indicates that bit 6 of frame 12 in Tx line is 1.
DB6	TF12B7 (Tx Frame12 Bit7)	Indicates that bit 7 of frame 12 in Tx line is 1.
DB7	TF12B8 (Tx Frame12 Bit8)	Indicates that bit 8 of frame 12 in Tx line is 1.

■ TXFBIT13 Status Register

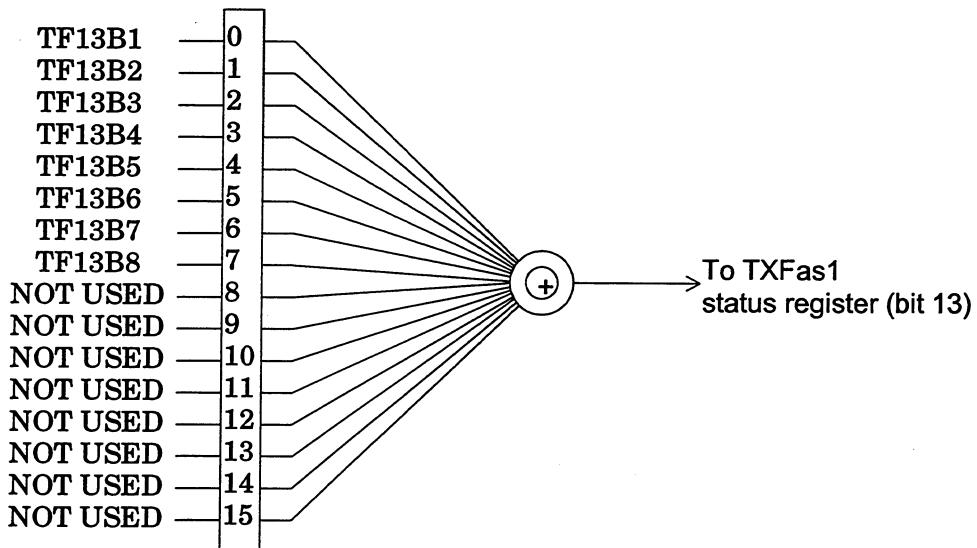


Fig. 7.4-56 TXFBIT13 Status Register

Table 7.4-57 Bit Definition of TXFBIT13 Status Register

Bit	Mnemonic	Description
DB0	TF13B1 (Tx Frame13 Bit1)	Indicates that bit 1 of frame 13 in Tx line is 1.
DB1	TF13B2 (Tx Frame13 Bit2)	Indicates that bit 2 of frame 13 in Tx line is 1.
DB2	TF13B3 (Tx Frame13 Bit3)	Indicates that bit 3 of frame 13 in Tx line is 1.
DB3	TF13B4 (Tx Frame13 Bit4)	Indicates that bit 4 of frame 13 in Tx line is 1.
DB4	TF13B5 (Tx Frame13 Bit5)	Indicates that bit 5 of frame 13 in Tx line is 1.
DB5	TF13B6 (Tx Frame13 Bit6)	Indicates that bit 6 of frame 13 in Tx line is 1.
DB6	TF13B7 (Tx Frame13 Bit7)	Indicates that bit 7 of frame 13 in Tx line is 1.
DB7	TF13B8 (Tx Frame13 Bit8)	Indicates that bit 8 of frame 13 in Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXFBit14 Status Register

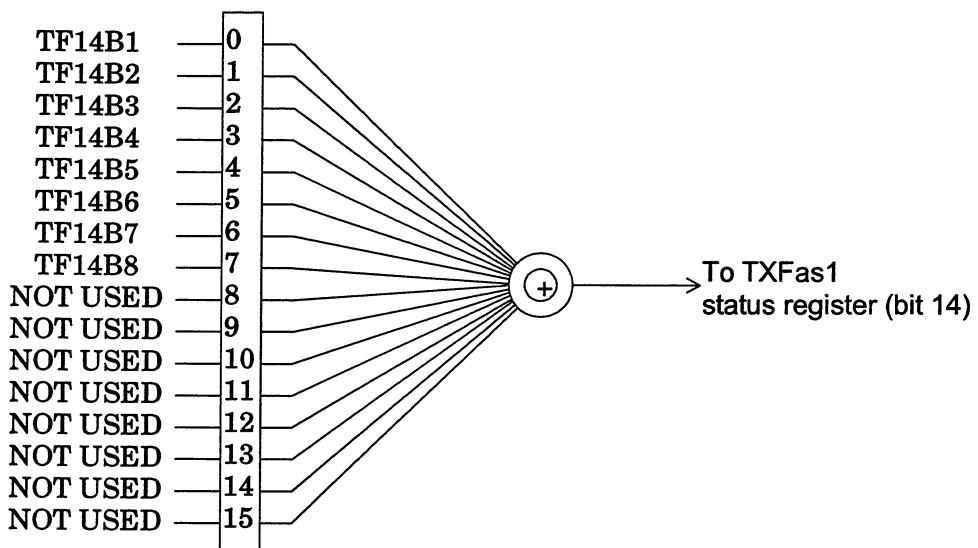


Fig. 7.4-57 TXFBit14 Status Register

Table 7.4-58 Bit Definition of TXFBit14 Status Register

Bit	Mnemonic	Description
DB0	TF14B1 (Tx Frame14 Bit1)	Indicates that bit 1 of frame 14 in Tx line is 1.
DB1	TF14B2 (Tx Frame14 Bit2)	Indicates that bit 2 of frame 14 in Tx line is 1.
DB2	TF14B3 (Tx Frame14 Bit3)	Indicates that bit 3 of frame 14 in Tx line is 1.
DB3	TF14B4 (Tx Frame14 Bit4)	Indicates that bit 4 of frame 14 in Tx line is 1.
DB4	TF14B5 (Tx Frame14 Bit5)	Indicates that bit 5 of frame 14 in Tx line is 1.
DB5	TF14B6 (Tx Frame14 Bit6)	Indicates that bit 6 of frame 14 in Tx line is 1.
DB6	TF14B7 (Tx Frame14 Bit7)	Indicates that bit 7 of frame 14 in Tx line is 1.
DB7	TF14B8 (Tx Frame14 Bit8)	Indicates that bit 8 of frame 14 in Tx line is 1.

■ TXFas2 Status Register

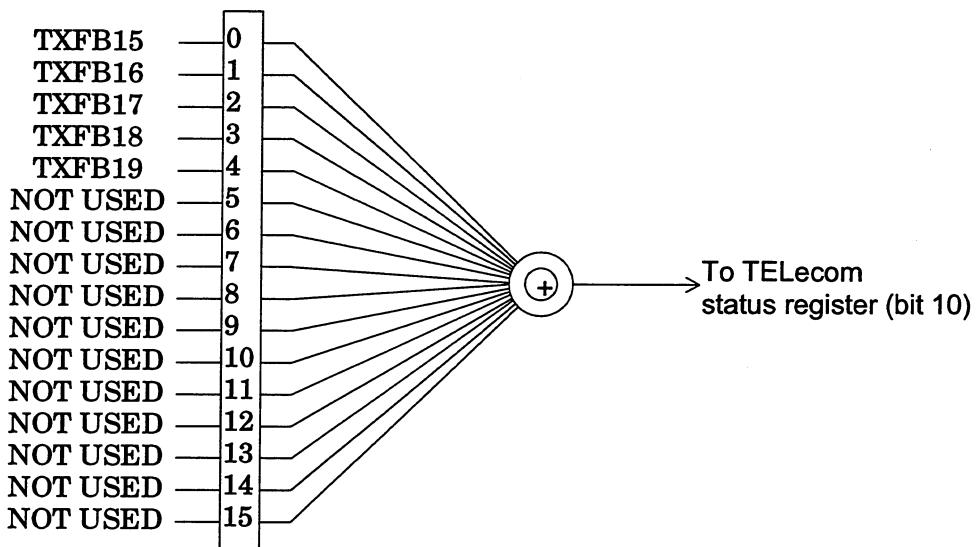


Fig. 7.4-58 TXFas2 Status Register

Table 7.4-59 Bit Definition of TXFas2 Status Register

Bit	Mnemonic	Description
DB0	TXFB15 (TXFBit15 status register summary)	TXFBit15 Status Register Summary
DB1	TXFB16 (TXFBit16 status register summary)	TXFBit16 Status Register Summary
DB2	TXFB17 (TXFBit17 status register summary)	TXFBit17 Status Register Summary
DB3	TXFB18 (TXFBit18 status register summary)	TXFBit18 Status Register Summary
DB4	TXFB19 (TXFBit19 status register summary)	TXFBit19 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ TXFBit15 Status Register

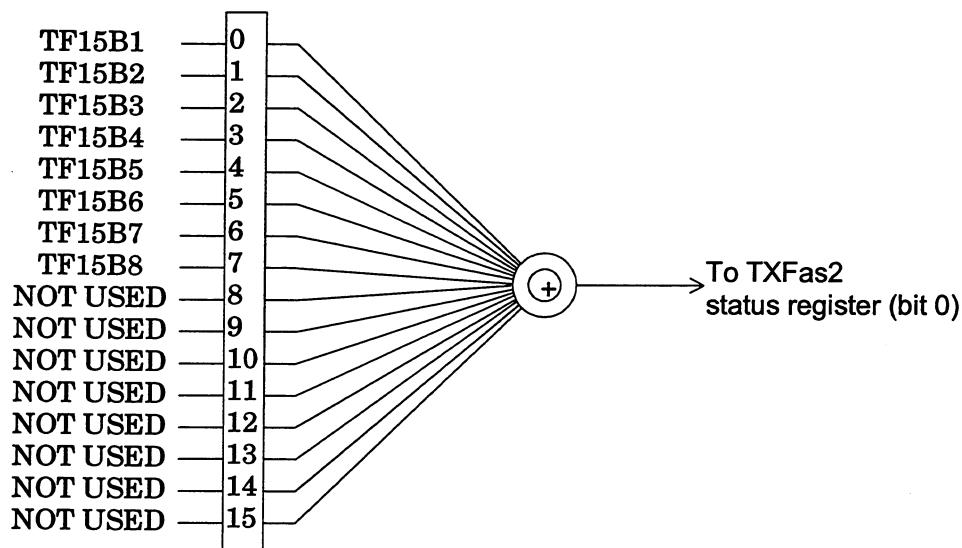


Fig. 7.4-59 TXFBit15 Status Register

Table 7.4-60 Bit Definition of TXFBit15 Status Register

Bit	Mnemonic	Description
DB0	TF15B1 (Tx Frame15 Bit1)	Indicates that bit 1 of frame 15 in Tx line is 1.
DB1	TF15B2 (Tx Frame15 Bit2)	Indicates that bit 2 of frame 15 in Tx line is 1.
DB2	TF15B3 (Tx Frame15 Bit3)	Indicates that bit 3 of frame 15 in Tx line is 1.
DB3	TF15B4 (Tx Frame15 Bit4)	Indicates that bit 4 of frame 15 in Tx line is 1.
DB4	TF15B5 (Tx Frame15 Bit5)	Indicates that bit 5 of frame 15 in Tx line is 1.
DB5	TF15B6 (Tx Frame15 Bit6)	Indicates that bit 6 of frame 15 in Tx line is 1.
DB6	TF15B7 (Tx Frame15 Bit7)	Indicates that bit 7 of frame 15 in Tx line is 1.
DB7	TF15B8 (Tx Frame15 Bit8)	Indicates that bit 8 of frame 15 in Tx line is 1.

■ TXFBIT16 Status Register

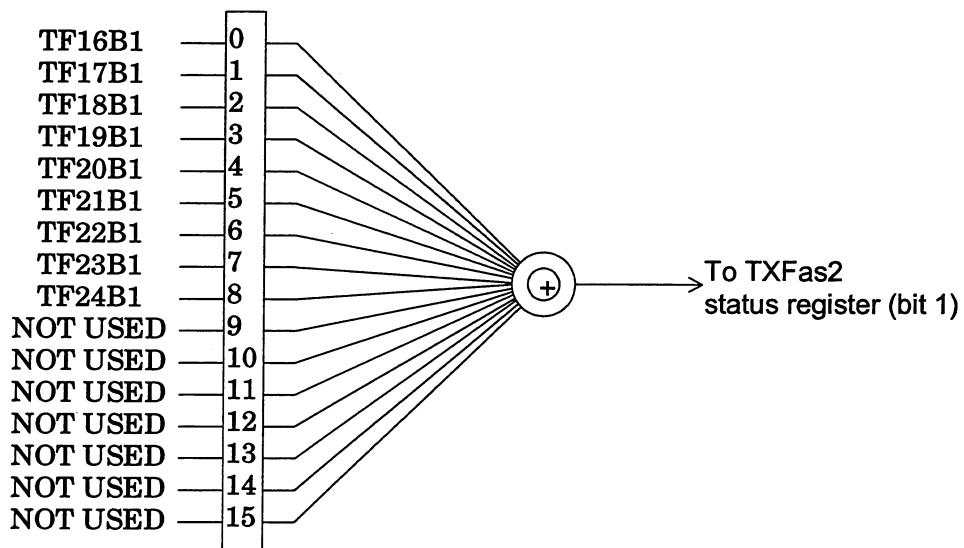


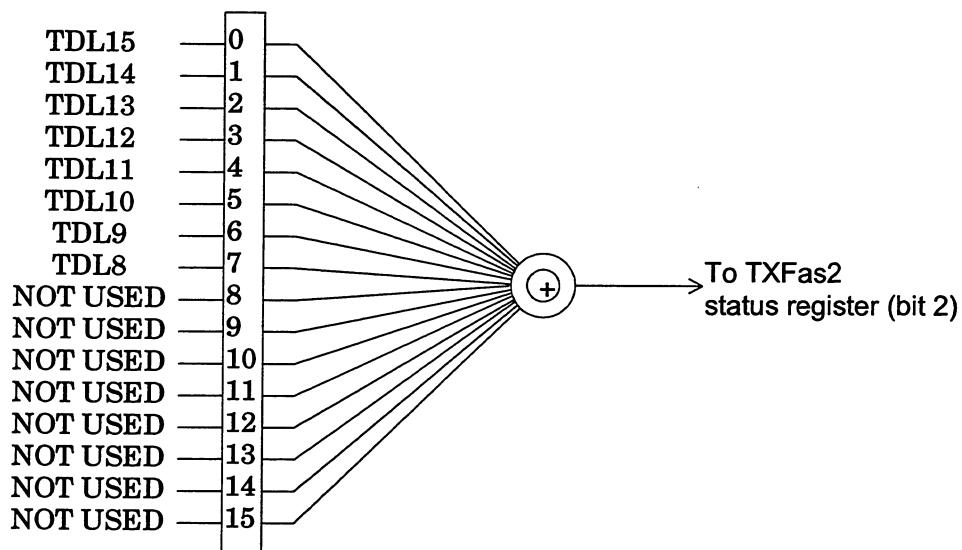
Fig. 7.4-60 TXFBIT16 Status Register

Table 7.4-61 Bit Definition of TXFBIT16 Status Register

Bit	Mnemonic	Description
DB0	TF16B1 (Tx Frame16 Bit1)	Indicates that bit 1 of frame 16 in Tx line is 1.
DB1	TF17B1 (Tx Frame17 Bit1)	Indicates that bit 1 of frame 17 in Tx line is 1.
DB2	TF18B1 (Tx Frame18 Bit1)	Indicates that bit 1 of frame 18 in Tx line is 1.
DB3	TF19B1 (Tx Frame19 Bit1)	Indicates that bit 1 of frame 19 in Tx line is 1.
DB4	TF20B1 (Tx Frame20 Bit1)	Indicates that bit 1 of frame 20 in Tx line is 1.
DB5	TF21B1 (Tx Frame21 Bit1)	Indicates that bit 1 of frame 21 in Tx line is 1.
DB6	TF22B1 (Tx Frame22 Bit1)	Indicates that bit 1 of frame 22 in Tx line is 1.
DB7	TF23B1 (Tx Frame23 Bit1)	Indicates that bit 1 of frame 23 in Tx line is 1.
DB8	TF24B1 (Tx Frame24 Bit1)	Indicates that bit 1 of frame 24 in Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXFBit17 Status Register



**Fig. 7.4-61 TXFBit17 Status Register**

**Table 7.4-62 Bit Definition of TXFBit17 Status Register**

Bit	Mnemonic	Description
DB0	TDL15 (Tx DL bit 15)	Indicates that the DL bit (bit 15) in Tx line is 1.
DB1	TDL14 (Tx DL bit 14)	Indicates that the DL bit (bit 14) in Tx line is 1.
DB2	TDL13 (Tx DL bit 13)	Indicates that the DL bit (bit 13) in Tx line is 1.
DB3	TDL12 (Tx DL bit 12)	Indicates that the DL bit (bit 12) in Tx line is 1.
DB4	TDL11 (Tx DL bit 11)	Indicates that the DL bit (bit 11) in Tx line is 1.
DB5	TDL10 (Tx DL bit 10)	Indicates that the DL bit (bit 10) in Tx line is 1.
DB6	TDL9 (Tx DL bit 9)	Indicates that the DL bit (bit 9) in Tx line is 1.
DB7	TDL8 (Tx DL bit 8)	Indicates that the DL bit (bit 8) in Tx line is 1.

■ TXFBIT18 Status Register

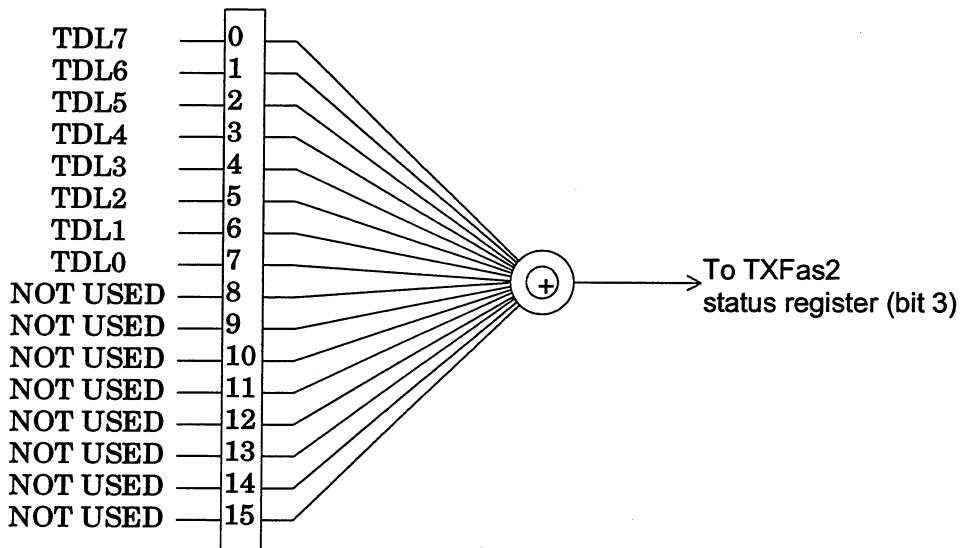


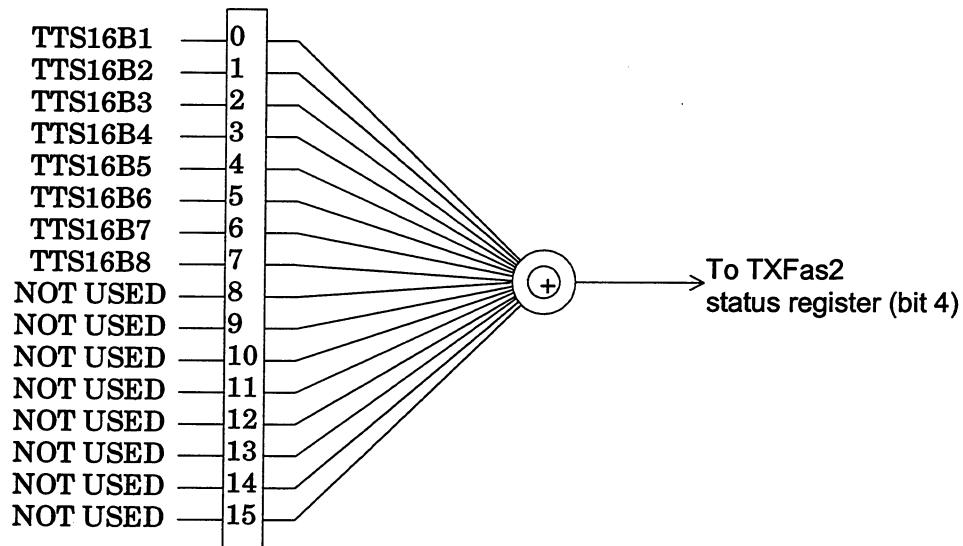
Fig. 7.4-62 TXFBIT18 Status Register

Table 7.4-63 Bit Definition of TXFBIT18 Status Register

Bit	Mnemonic	Description
DB0	TDL7 (Tx DL bit 7)	Indicates that the DL bit (bit 7) in Tx line is 1.
DB1	TDL6 (Tx DL bit 6)	Indicates that the DL bit (bit 6) in Tx line is 1.
DB2	TDL5 (Tx DL bit 5)	Indicates that the DL bit (bit 5) in Tx line is 1.
DB3	TDL4 (Tx DL bit 4)	Indicates that the DL bit (bit 4) in Tx line is 1.
DB4	TDL3 (Tx DL bit 3)	Indicates that the DL bit (bit 3) in Tx line is 1.
DB5	TDL2 (Tx DL bit 2)	Indicates that the DL bit (bit 2) in Tx line is 1.
DB6	TDL1 (Tx DL bit 1)	Indicates that the DL bit (bit 1) in Tx line is 1.
DB7	TDL0 (Tx DL bit 0)	Indicates that the DL bit (bit 0) in Tx line is 1.

## SECTION 7 STATUS REPORT

### ■ TXFBit19 Status Register



**Fig. 7.4-63 TXFBit19 Status Register**

**Table 7.4-64 Bit Definition of TXFBit19 Status Register**

Bit	Mnemonic	Description
DB0	TTS16B1 (Tx TS16 frame0 Bit 1)	Indicates that the TS16 Frame0 bit (bit 1) of Tx line is 1.
DB1	TTS16B2 (Tx TS16 frame0 Bit 2)	Indicates that the TS16 Frame0 bit (bit 2) of Tx line is 1.
DB2	TTS16B3 (Tx TS16 frame0 Bit 3)	Indicates that the TS16 Frame0 bit (bit 3) of Tx line is 1.
DB3	TTS16B4 (Tx TS16 frame0 Bit 4)	Indicates that the TS16 Frame0 bit (bit 4) of Tx line is 1.
DB4	TTS16B5 (Tx TS16 frame0 Bit 5)	Indicates that the TS16 Frame0 bit (bit 5) of Tx line is 1.
DB5	TTS16B6 (Tx TS16 frame0 Bit 6)	Indicates that the TS16 Frame0 bit (bit 6) of Tx line is 1.
DB6	TTS16B7 (Tx TS16 frame0 Bit 7)	Indicates that the TS16 Frame0 bit (bit 7) of Tx line is 1.
DB7	TTS16B8 (Tx TS16 frame0 Bit 8)	Indicates that the TS16 Frame0 bit (bit 8) of Tx line is 1.

■ RXFas1 Status Register

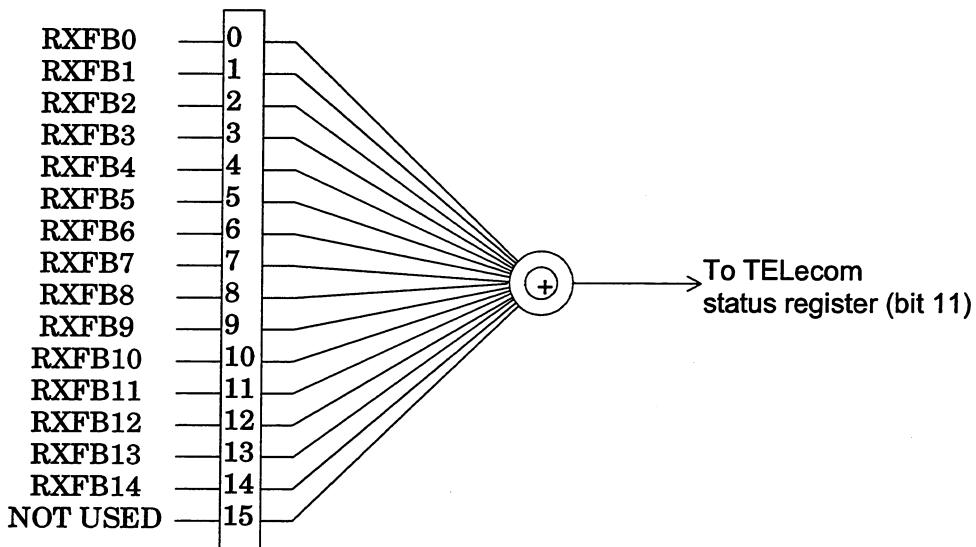


Fig. 7.4-64 RXFas1 Status Register

Table 7.4-65 Bit Definition of RXFas1 Status Register

Bit	Mnemonic	Description
DB0	RXFB0 (RXFBit0 status register summary)	RXFBit0 Status Register Summary
DB1	RXFB1 (RXFBit1 status register summary)	RXFBit1 Status Register Summary
DB2	RXFB2 (RXFBit2 status register summary)	RXFBit2 Status Register Summary
DB3	RXFB3 (RXFBit3 status register summary)	RXFBit3 Status Register Summary
DB4	RXFB4 (RXFBit4 status register summary)	RXFBit4 Status Register Summary
DB5	RXFB5 (RXFBit5 status register summary)	RXFBit5 Status Register Summary
DB6	RXFB6 (RXFBit6 status register summary)	RXFBit6 Status Register Summary
DB7	RXFB7 (RXFBit7 status register summary)	RXFBit7 Status Register Summary
DB8	RXFB8 (RXFBit8 status register summary)	RXFBit8 Status Register Summary
DB9	RXFB9 (RXFBit9 status register summary)	RXFBit9 Status Register Summary
DB10	RXFB10 (RXFBit10 status register summary)	RXFBit10 Status Register Summary
DB11	RXFB11 (RXFBit11 status register summary)	RXFBit11 Status Register Summary
DB12	RXFB12 (RXFBit12 status register summary)	RXFBit12 Status Register Summary
DB13	RXFB13 (RXFBit13 status register summary)	RXFBit13 Status Register Summary
DB14	RXFB14 (RXFBit14 status register summary)	RXFBit14 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ RXFBit0 Status Register

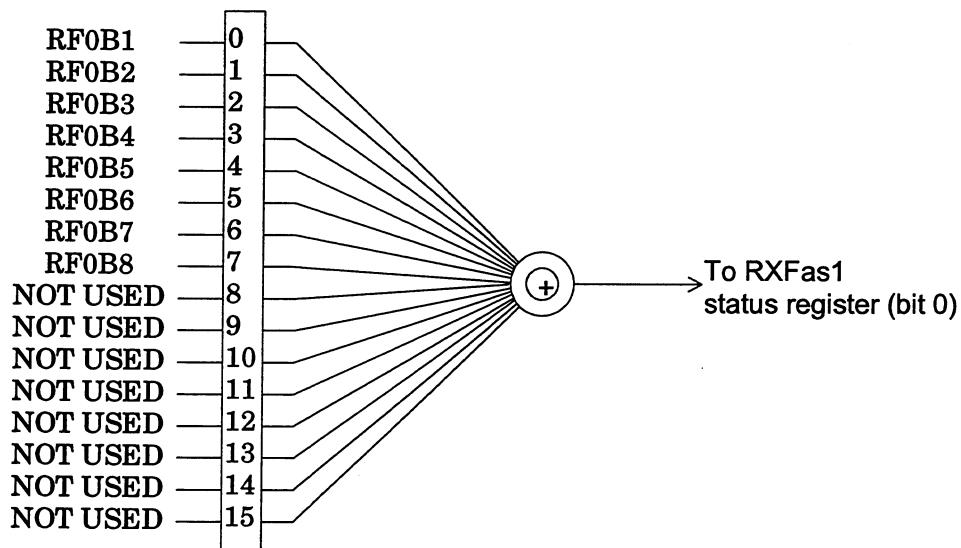


Fig. 7.4-65 RXFBit0 Status Register

Table 7.4-66 Bit Definition of RXFBit0 Status Register

Bit	Mnemonic	Description
DB0	RF0B1 (Rx Frame0 Bit1)	Indicates that bit 1 of frame 0 in Rx line is 1.
DB1	RF0B2 (Rx Frame0 Bit2)	Indicates that bit 2 of frame 0 in Rx line is 1.
DB2	RF0B3 (Rx Frame0 Bit3)	Indicates that bit 3 of frame 0 in Rx line is 1.
DB3	RF0B4 (Rx Frame0 Bit4)	Indicates that bit 4 of frame 0 in Rx line is 1.
DB4	RF0B5 (Rx Frame0 Bit5)	Indicates that bit 5 of frame 0 in Rx line is 1.
DB5	RF0B6 (Rx Frame0 Bit6)	Indicates that bit 6 of frame 0 in Rx line is 1.
DB6	RF0B7 (Rx Frame0 Bit7)	Indicates that bit 7 of frame 0 in Rx line is 1.
DB7	RF0B8 (Rx Frame0 Bit8)	Indicates that bit 8 of frame 0 in Rx line is 1.

■ RXFBit1 Status Register

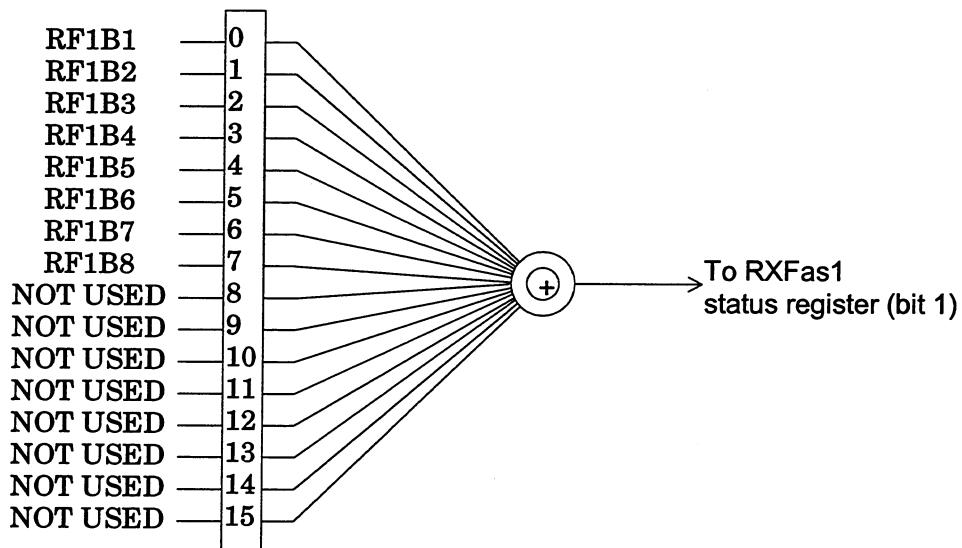


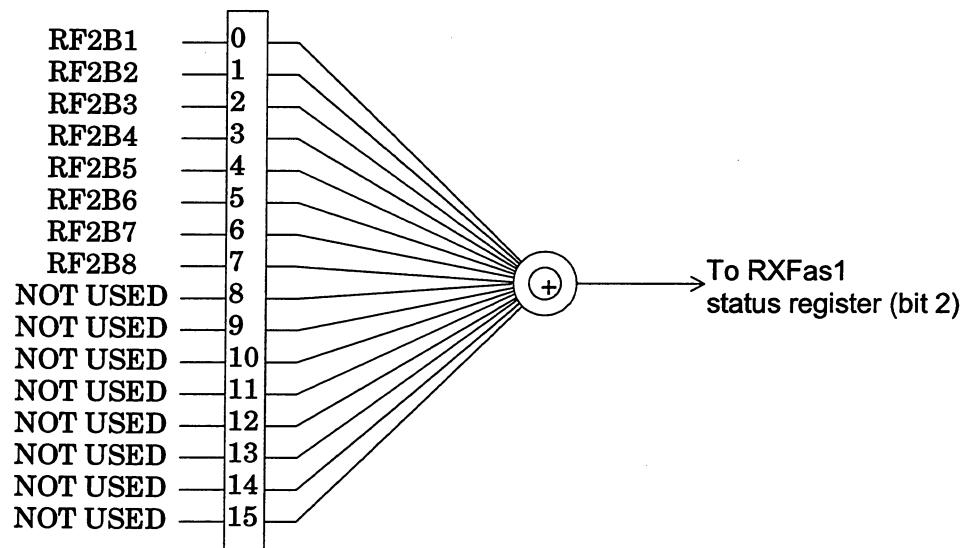
Fig. 7.4-66 RXFBit1 Status Register

Table 7.4-67 Bit Definition of RXFBit1 Status Register

Bit	Mnemonic	Description
DB0	RF1B1 (Rx Frame1 Bit1)	Indicates that bit 1 of frame 1 in Rx line is 1.
DB1	RF1B2 (Rx Frame1 Bit2)	Indicates that bit 2 of frame 1 in Rx line is 1.
DB2	RF1B3 (Rx Frame1 Bit3)	Indicates that bit 3 of frame 1 in Rx line is 1.
DB3	RF1B4 (Rx Frame1 Bit4)	Indicates that bit 4 of frame 1 in Rx line is 1.
DB4	RF1B5 (Rx Frame1 Bit5)	Indicates that bit 5 of frame 1 in Rx line is 1.
DB5	RF1B6 (Rx Frame1 Bit6)	Indicates that bit 6 of frame 1 in Rx line is 1.
DB6	RF1B7 (Rx Frame1 Bit7)	Indicates that bit 7 of frame 1 in Rx line is 1.
DB7	RF1B8 (Rx Frame1 Bit8)	Indicates that bit 8 of frame 1 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit2 Status Register



**Fig. 7.4-67 RXFBit2 Status Register**

**Table 7.4-68 Bit Definition of RXFBit2 Status Register**

Bit	Mnemonic	Description
DB0	RF2B1 (Rx Frame2 Bit1)	Indicates that bit 1 of frame 2 in Rx line is 1.
DB1	RF2B2 (Rx Frame2 Bit2)	Indicates that bit 2 of frame 2 in Rx line is 1.
DB2	RF2B3 (Rx Frame2 Bit3)	Indicates that bit 3 of frame 2 in Rx line is 1.
DB3	RF2B4 (Rx Frame2 Bit4)	Indicates that bit 4 of frame 2 in Rx line is 1.
DB4	RF2B5 (Rx Frame2 Bit5)	Indicates that bit 5 of frame 2 in Rx line is 1.
DB5	RF2B6 (Rx Frame2 Bit6)	Indicates that bit 6 of frame 2 in Rx line is 1.
DB6	RF2B7 (Rx Frame2 Bit7)	Indicates that bit 7 of frame 2 in Rx line is 1.
DB7	RF2B8 (Rx Frame2 Bit8)	Indicates that bit 8 of frame 2 in Rx line is 1.

■ RXFBit3 Status Register

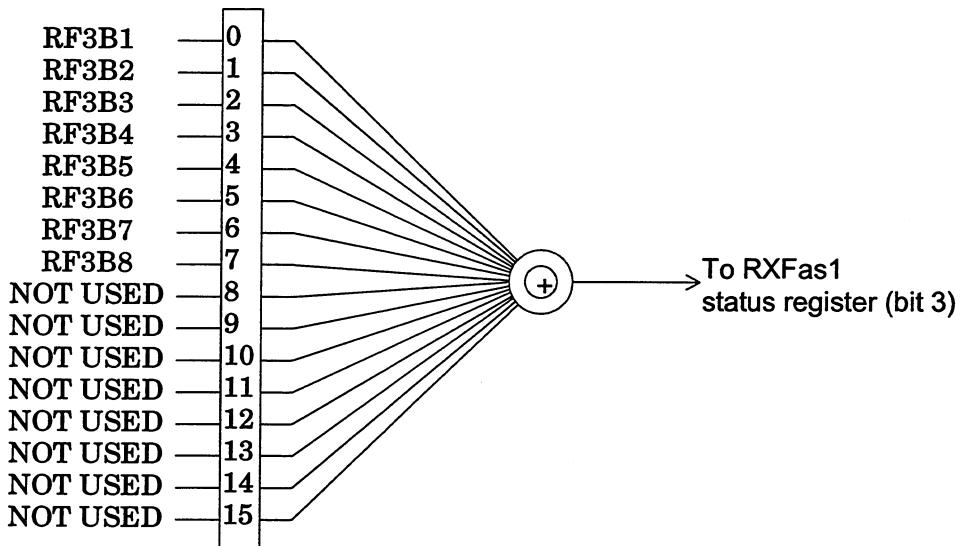


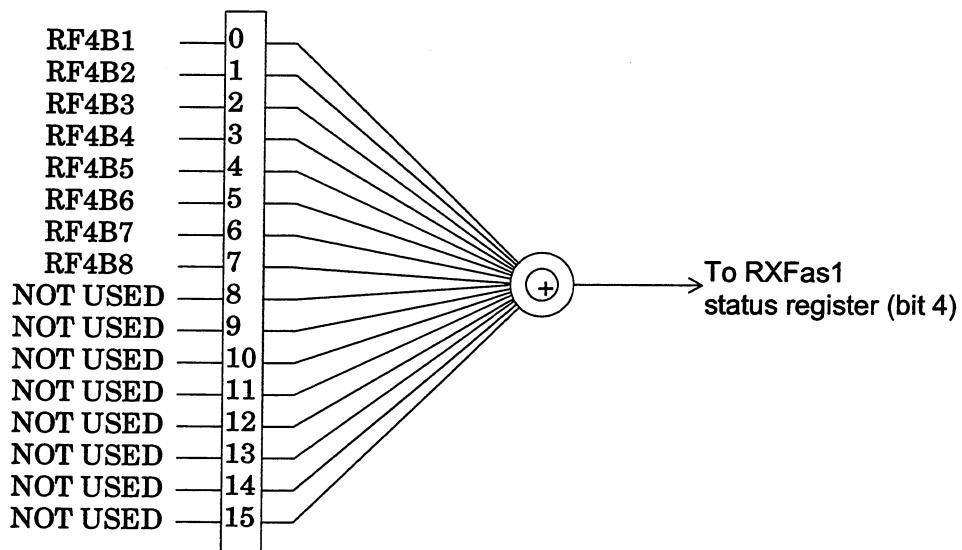
Fig. 7.4-68 RXFBit3 Status Register

Table 7.4-69 Bit Definition of RXFBit3 Status Register

Bit	Mnemonic	Description
DB0	RF3B1 (Rx Frame3 Bit1)	Indicates that bit 1 of frame 3 in Rx line is 1.
DB1	RF3B2 (Rx Frame3 Bit2)	Indicates that bit 2 of frame 3 in Rx line is 1.
DB2	RF3B3 (Rx Frame3 Bit3)	Indicates that bit 3 of frame 3 in Rx line is 1.
DB3	RF3B4 (Rx Frame3 Bit4)	Indicates that bit 4 of frame 3 in Rx line is 1.
DB4	RF3B5 (Rx Frame3 Bit5)	Indicates that bit 5 of frame 3 in Rx line is 1.
DB5	RF3B6 (Rx Frame3 Bit6)	Indicates that bit 6 of frame 3 in Rx line is 1.
DB6	RF3B7 (Rx Frame3 Bit7)	Indicates that bit 7 of frame 3 in Rx line is 1.
DB7	RF3B8 (Rx Frame3 Bit8)	Indicates that bit 8 of frame 3 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit4 Status Register



**Fig. 7.4-69 RXFBit4 Status Register**

**Table 7.4-70 Bit Definition of RXFBit4 Status Register**

Bit	Mnemonic	Description
DB0	RF4B1 (Rx Frame4 Bit1)	Indicates that bit 1 of frame 4 in Rx line is 1.
DB1	RF4B2 (Rx Frame4 Bit2)	Indicates that bit 2 of frame 4 in Rx line is 1.
DB2	RF4B3 (Rx Frame4 Bit3)	Indicates that bit 3 of frame 4 in Rx line is 1.
DB3	RF4B4 (Rx Frame4 Bit4)	Indicates that bit 4 of frame 4 in Rx line is 1.
DB4	RF4B5 (Rx Frame4 Bit5)	Indicates that bit 5 of frame 4 in Rx line is 1.
DB5	RF4B6 (Rx Frame4 Bit6)	Indicates that bit 6 of frame 4 in Rx line is 1.
DB6	RF4B7 (Rx Frame4 Bit7)	Indicates that bit 7 of frame 4 in Rx line is 1.
DB7	RF4B8 (Rx Frame4 Bit8)	Indicates that bit 8 of frame 4 in Rx line is 1.

■ RXFBit5 Status Register

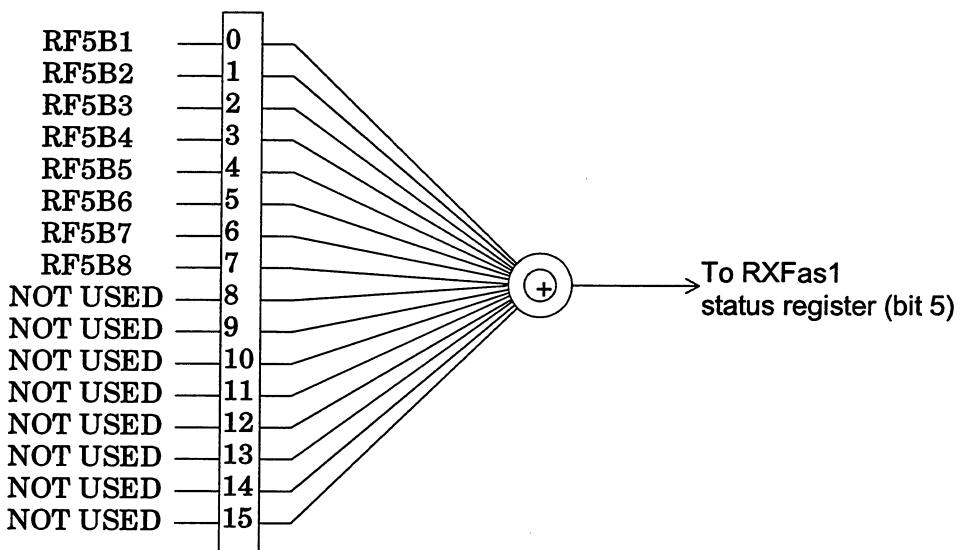


Fig. 7.4-70 RXFBit5 Status Register

Table 7.4-71 Bit Definition of RXFBit5 Status Register

Bit	Mnemonic	Description
DB0	RF5B1 (Rx Frame5 Bit1)	Indicates that bit 1 of frame 5 in Rx line is 1.
DB1	RF5B2 (Rx Frame5 Bit2)	Indicates that bit 2 of frame 5 in Rx line is 1.
DB2	RF5B3 (Rx Frame5 Bit3)	Indicates that bit 3 of frame 5 in Rx line is 1.
DB3	RF5B4 (Rx Frame5 Bit4)	Indicates that bit 4 of frame 5 in Rx line is 1.
DB4	RF5B5 (Rx Frame5 Bit5)	Indicates that bit 5 of frame 5 in Rx line is 1.
DB5	RF5B6 (Rx Frame5 Bit6)	Indicates that bit 6 of frame 5 in Rx line is 1.
DB6	RF5B7 (Rx Frame5 Bit7)	Indicates that bit 7 of frame 5 in Rx line is 1.
DB7	RF5B8 (Rx Frame5 Bit8)	Indicates that bit 8 of frame 5 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit6 Status Register

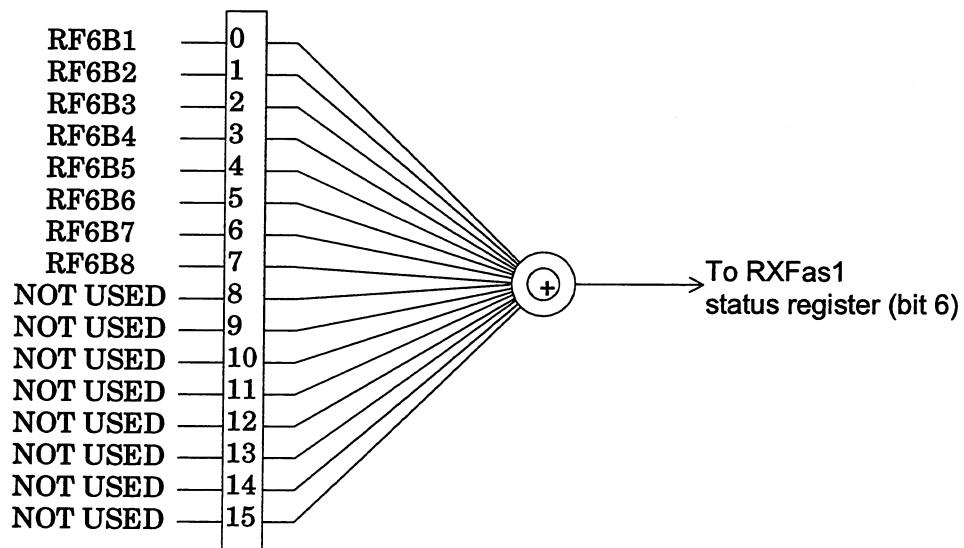


Fig. 7.4-71 RXFBit6 Status Register

Table 7.4-72 Bit Definition of RXFBit6 Status Register

Bit	Mnemonic	Description
DB0	RF6B1 (Rx Frame6 Bit1)	Indicates that bit 1 of frame 6 in Rx line is 1.
DB1	RF6B2 (Rx Frame6 Bit2)	Indicates that bit 2 of frame 6 in Rx line is 1.
DB2	RF6B3 (Rx Frame6 Bit3)	Indicates that bit 3 of frame 6 in Rx line is 1.
DB3	RF6B4 (Rx Frame6 Bit4)	Indicates that bit 4 of frame 6 in Rx line is 1.
DB4	RF6B5 (Rx Frame6 Bit5)	Indicates that bit 5 of frame 6 in Rx line is 1.
DB5	RF6B6 (Rx Frame6 Bit6)	Indicates that bit 6 of frame 6 in Rx line is 1.
DB6	RF6B7 (Rx Frame6 Bit7)	Indicates that bit 7 of frame 6 in Rx line is 1.
DB7	RF6B8 (Rx Frame6 Bit8)	Indicates that bit 8 of frame 6 in Rx line is 1.

■ RXFBit7 Status Register

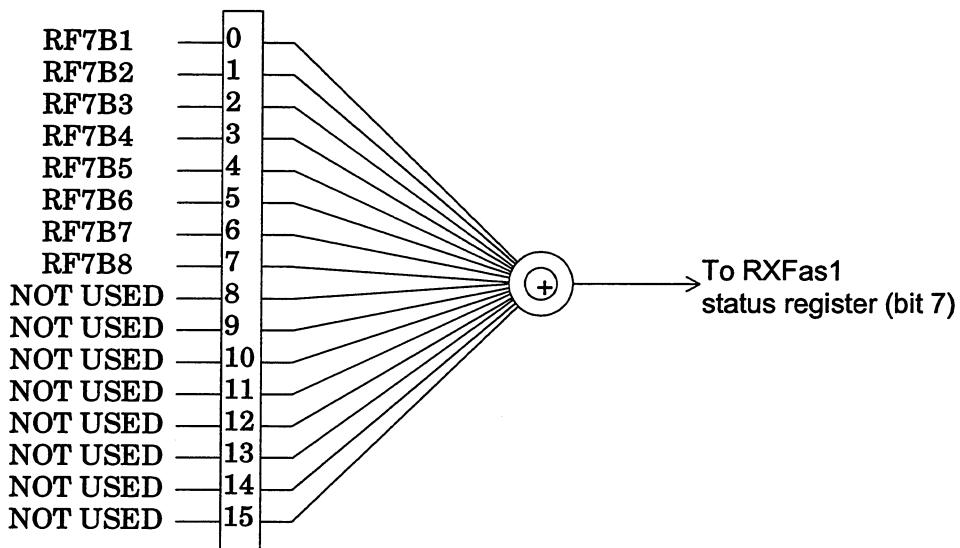


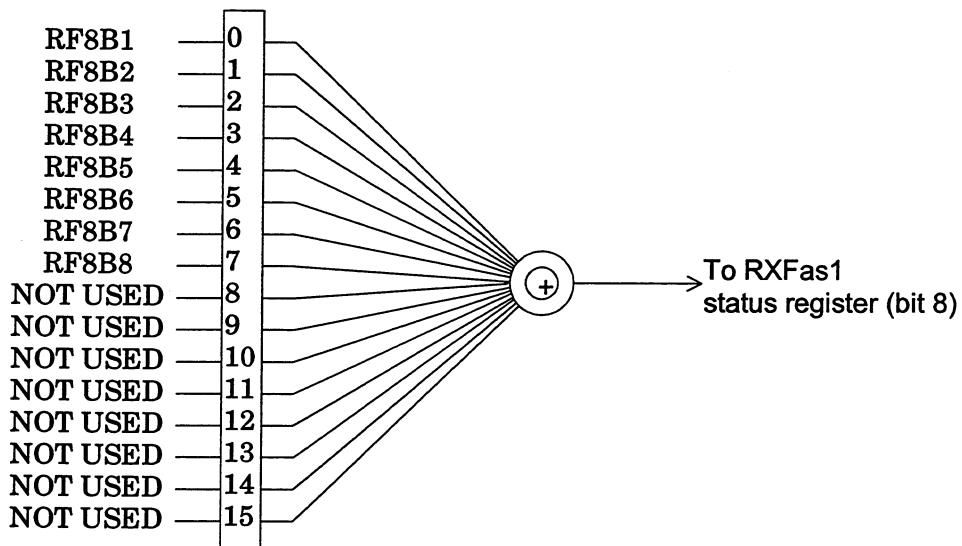
Fig. 7.4-72 RXFBit7 Status Register

Table 7.4-73 Bit Definition of RXFBit7 Status Register

Bit	Mnemonic	Description
DB0	RF7B1 (Rx Frame7 Bit1)	Indicates that bit 1 of frame 7 in Rx line is 1.
DB1	RF7B2 (Rx Frame7 Bit2)	Indicates that bit 2 of frame 7 in Rx line is 1.
DB2	RF7B3 (Rx Frame7 Bit3)	Indicates that bit 3 of frame 7 in Rx line is 1.
DB3	RF7B4 (Rx Frame7 Bit4)	Indicates that bit 4 of frame 7 in Rx line is 1.
DB4	RF7B5 (Rx Frame7 Bit5)	Indicates that bit 5 of frame 7 in Rx line is 1.
DB5	RF7B6 (Rx Frame7 Bit6)	Indicates that bit 6 of frame 7 in Rx line is 1.
DB6	RF7B7 (Rx Frame7 Bit7)	Indicates that bit 7 of frame 7 in Rx line is 1.
DB7	RF7B8 (Rx Frame7 Bit8)	Indicates that bit 8 of frame 7 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit8 Status Register



**Fig. 7.4-73 RXFBit8 Status Register**

**Table 7.4-74 Bit Definition of RXFBit8 Status Register**

Bit	Mnemonic	Description
DB0	RF8B1 (Rx Frame8 Bit1)	Indicates that bit 1 of frame 8 in Rx line is 1.
DB1	RF8B2 (Rx Frame8 Bit2)	Indicates that bit 2 of frame 8 in Rx line is 1.
DB2	RF8B3 (Rx Frame8 Bit3)	Indicates that bit 3 of frame 8 in Rx line is 1.
DB3	RF8B4 (Rx Frame8 Bit4)	Indicates that bit 4 of frame 8 in Rx line is 1.
DB4	RF8B5 (Rx Frame8 Bit5)	Indicates that bit 5 of frame 8 in Rx line is 1.
DB5	RF8B6 (Rx Frame8 Bit6)	Indicates that bit 6 of frame 8 in Rx line is 1.
DB6	RF8B7 (Rx Frame8 Bit7)	Indicates that bit 7 of frame 8 in Rx line is 1.
DB7	RF8B8 (Rx Frame8 Bit8)	Indicates that bit 8 of frame 8 in Rx line is 1.

■ RXFBit9 Status Register

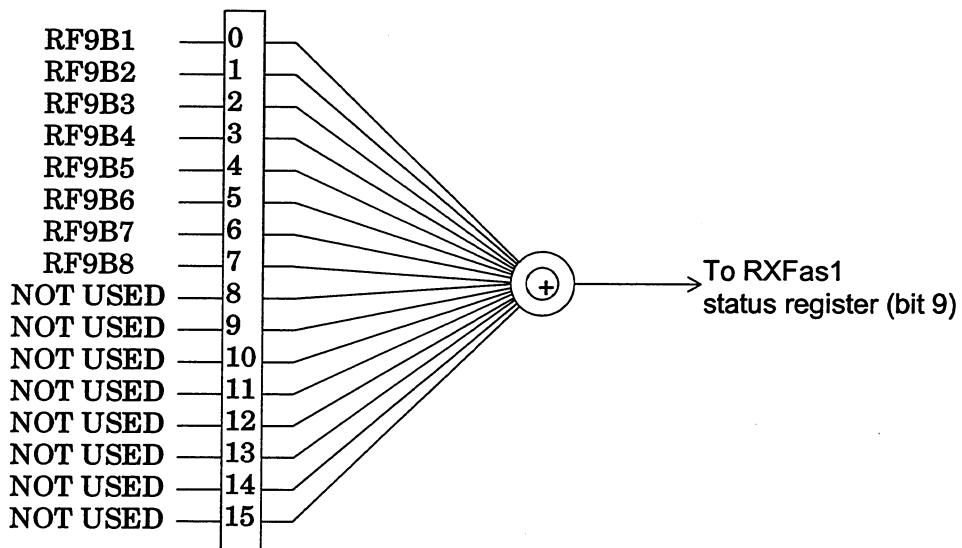


Fig. 7.4-74 RXFBit9 Status Register

Table 7.4-75 Bit Definition of RXFBit9 Status Register

Bit	Mnemonic	Description
DB0	RF9B1 (Rx Frame9 Bit1)	Indicates that bit 1 of frame 9 in Rx line is 1.
DB1	RF9B2 (Rx Frame9 Bit2)	Indicates that bit 2 of frame 9 in Rx line is 1.
DB2	RF9B3 (Rx Frame9 Bit3)	Indicates that bit 3 of frame 9 in Rx line is 1.
DB3	RF9B4 (Rx Frame9 Bit4)	Indicates that bit 4 of frame 9 in Rx line is 1.
DB4	RF9B5 (Rx Frame9 Bit5)	Indicates that bit 5 of frame 9 in Rx line is 1.
DB5	RF9B6 (Rx Frame9 Bit6)	Indicates that bit 6 of frame 9 in Rx line is 1.
DB6	RF9B7 (Rx Frame9 Bit7)	Indicates that bit 7 of frame 9 in Rx line is 1.
DB7	RF9B8 (Rx Frame9 Bit8)	Indicates that bit 8 of frame 9 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit10 Status Register

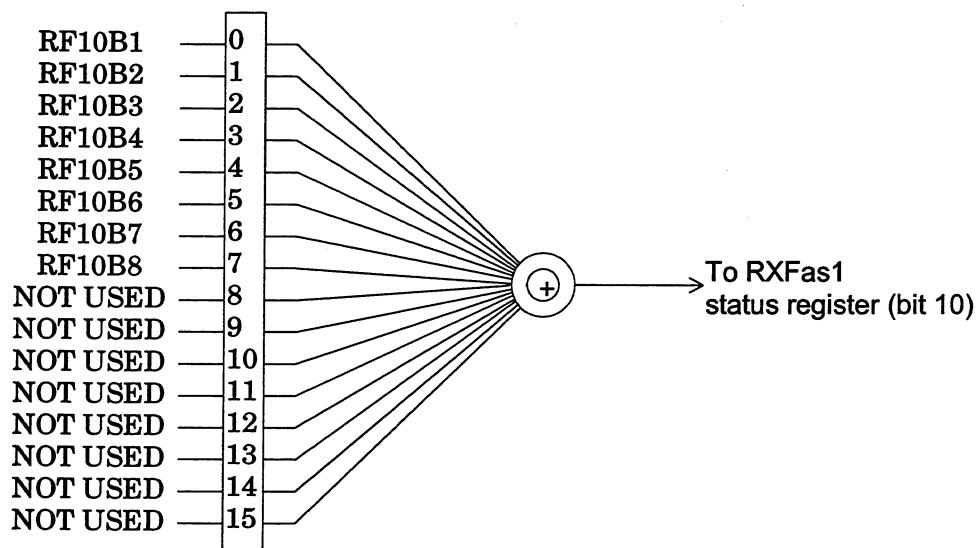


Fig. 7.4-75 RXFBit10 Status Register

Table 7.4-76 Bit Definition of RXFBit10 Status Register

Bit	Mnemonic	Description
DB0	RF10B1 (Rx Frame10 Bit1)	Indicates that bit 1 of frame 10 in Rx line is 1.
DB1	RF10B2 (Rx Frame10 Bit2)	Indicates that bit 2 of frame 10 in Rx line is 1.
DB2	RF10B3 (Rx Frame10 Bit3)	Indicates that bit 3 of frame 10 in Rx line is 1.
DB3	RF10B4 (Rx Frame10 Bit4)	Indicates that bit 4 of frame 10 in Rx line is 1.
DB4	RF10B5 (Rx Frame10 Bit5)	Indicates that bit 5 of frame 10 in Rx line is 1.
DB5	RF10B6 (Rx Frame10 Bit6)	Indicates that bit 6 of frame 10 in Rx line is 1.
DB6	RF10B7 (Rx Frame10 Bit7)	Indicates that bit 7 of frame 10 in Rx line is 1.
DB7	RF10B8 (Rx Frame10 Bit8)	Indicates that bit 8 of frame 10 in Rx line is 1.

■ RXFBit11 Status Register

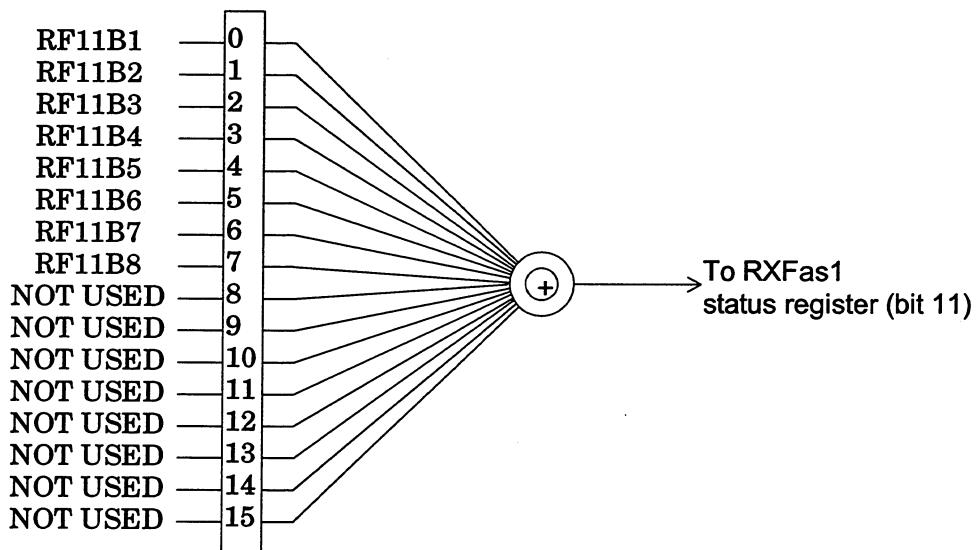


Fig. 7.4-76 RXFBit11 Status Register

Table 7.4-77 Bit Definition of RXFBit11 Status Register

Bit	Mnemonic	Description
DB0	RF11B1 (Rx Frame11 Bit1)	Indicates that bit 1 of frame 11 in Rx line is 1.
DB1	RF11B2 (Rx Frame11 Bit2)	Indicates that bit 2 of frame 11 in Rx line is 1.
DB2	RF11B3 (Rx Frame11 Bit3)	Indicates that bit 3 of frame 11 in Rx line is 1.
DB3	RF11B4 (Rx Frame11 Bit4)	Indicates that bit 4 of frame 11 in Rx line is 1.
DB4	RF11B5 (Rx Frame11 Bit5)	Indicates that bit 5 of frame 11 in Rx line is 1.
DB5	RF11B6 (Rx Frame11 Bit6)	Indicates that bit 6 of frame 11 in Rx line is 1.
DB6	RF11B7 (Rx Frame11 Bit7)	Indicates that bit 7 of frame 11 in Rx line is 1.
DB7	RF11B8 (Rx Frame11 Bit8)	Indicates that bit 8 of frame 11 in Rx line is 1.

## SECTION 7 STATUS REPORT

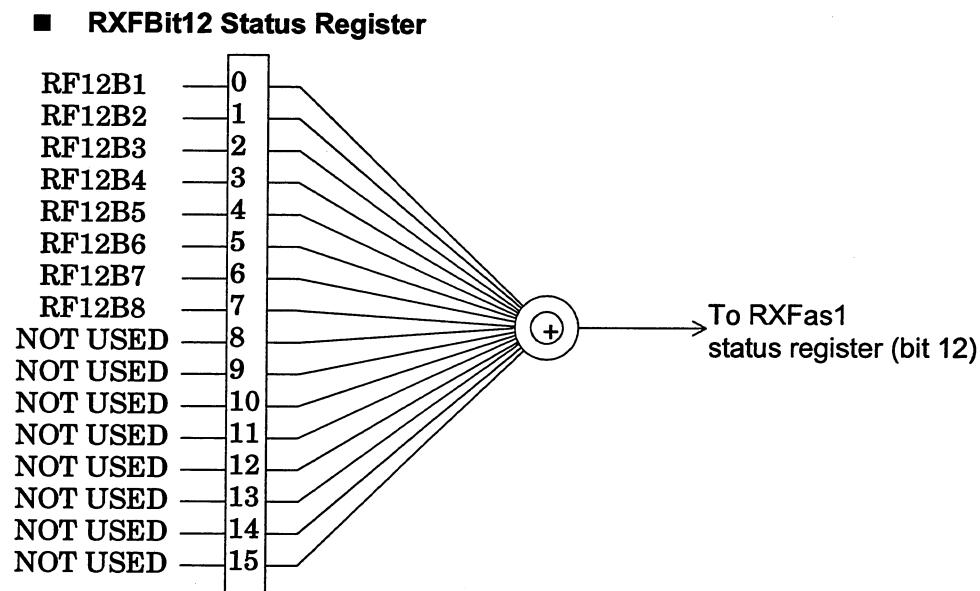


Fig. 7.4-77 RXFBit12 Status Register

Table 7.4-78 Bit Definition of RXFBit12 Status Register

Bit	Mnemonic	Description
DB0	RF12B1 (Rx Frame12 Bit1)	Indicates that bit 1 of frame 12 in Rx line is 1.
DB1	RF12B2 (Rx Frame12 Bit2)	Indicates that bit 2 of frame 12 in Rx line is 1.
DB2	RF12B3 (Rx Frame12 Bit3)	Indicates that bit 3 of frame 12 in Rx line is 1.
DB3	RF12B4 (Rx Frame12 Bit4)	Indicates that bit 4 of frame 12 in Rx line is 1.
DB4	RF12B5 (Rx Frame12 Bit5)	Indicates that bit 5 of frame 12 in Rx line is 1.
DB5	RF12B6 (Rx Frame12 Bit6)	Indicates that bit 6 of frame 12 in Rx line is 1.
DB6	RF12B7 (Rx Frame12 Bit7)	Indicates that bit 7 of frame 12 in Rx line is 1.
DB7	RF12B8 (Rx Frame12 Bit8)	Indicates that bit 8 of frame 12 in Rx line is 1.

■ RXFBit13 Status Register

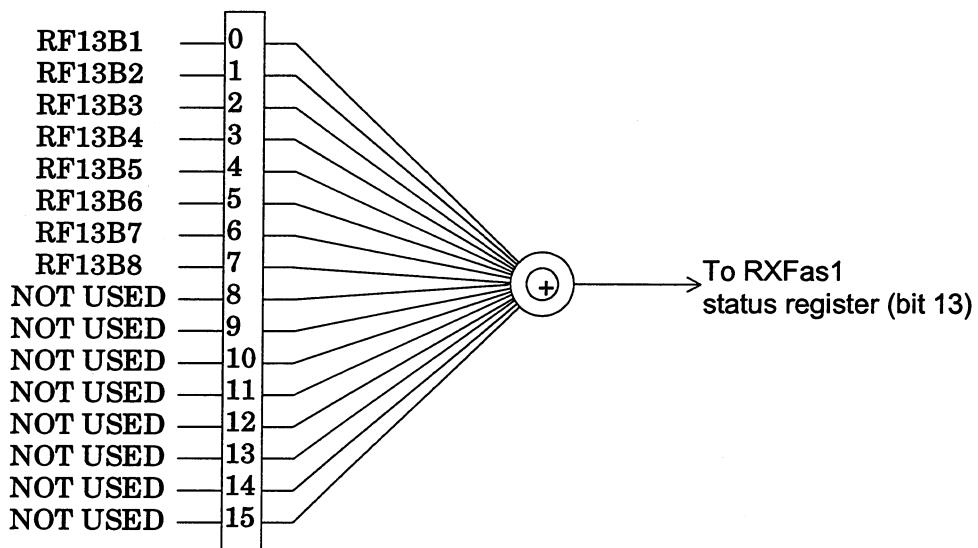


Fig. 7.4-78 RXFBit13 Status Register

Table 7.4-79 Bit Definition of RXFBit13 Status Register

Bit	Mnemonic	Description
DB0	RF13B1 (Rx Frame13 Bit1)	Indicates that bit 1 of frame 13 in Rx line is 1.
DB1	RF13B2 (Rx Frame13 Bit2)	Indicates that bit 2 of frame 13 in Rx line is 1.
DB2	RF13B3 (Rx Frame13 Bit3)	Indicates that bit 3 of frame 13 in Rx line is 1.
DB3	RF13B4 (Rx Frame13 Bit4)	Indicates that bit 4 of frame 13 in Rx line is 1.
DB4	RF13B5 (Rx Frame13 Bit5)	Indicates that bit 5 of frame 13 in Rx line is 1.
DB5	RF13B6 (Rx Frame13 Bit6)	Indicates that bit 6 of frame 13 in Rx line is 1.
DB6	RF13B7 (Rx Frame13 Bit7)	Indicates that bit 7 of frame 13 in Rx line is 1.
DB7	RF13B8 (Rx Frame13 Bit8)	Indicates that bit 8 of frame 13 in Rx line is 1.

## SECTION 7 STATUS REPORT

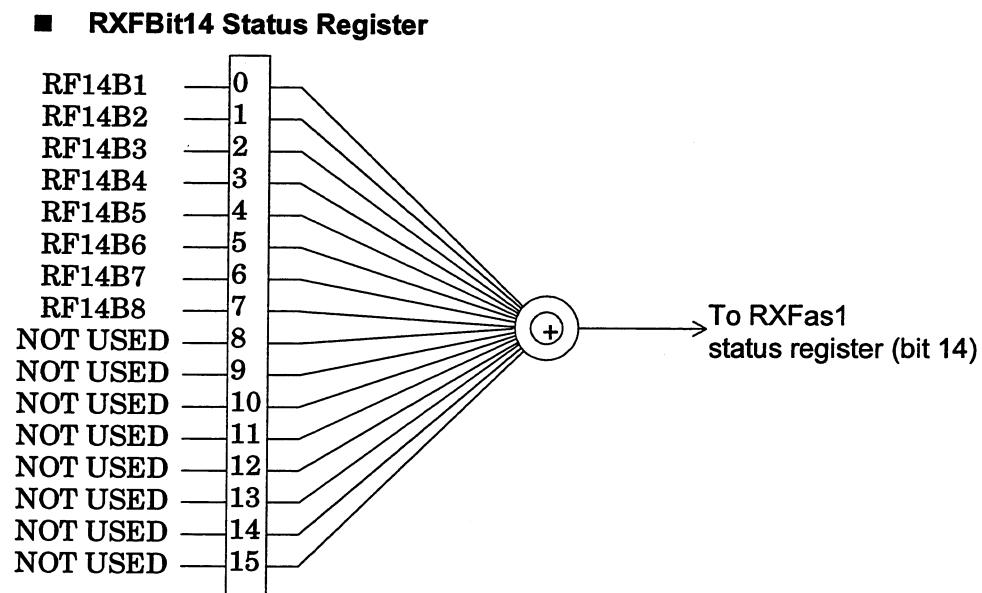


Fig. 7.4-79 RXFBit14 Status Register

Table 7.4-80 Bit Definition of RXFBit14 Status Register

Bit	Mnemonic	Description
DB0	RF14B1 (Rx Frame14 Bit1)	Indicates that bit 1 of frame 14 in Rx line is 1.
DB1	RF14B2 (Rx Frame14 Bit2)	Indicates that bit 2 of frame 14 in Rx line is 1.
DB2	RF14B3 (Rx Frame14 Bit3)	Indicates that bit 3 of frame 14 in Rx line is 1.
DB3	RF14B4 (Rx Frame14 Bit4)	Indicates that bit 4 of frame 14 in Rx line is 1.
DB4	RF14B5 (Rx Frame14 Bit5)	Indicates that bit 5 of frame 14 in Rx line is 1.
DB5	RF14B6 (Rx Frame14 Bit6)	Indicates that bit 6 of frame 14 in Rx line is 1.
DB6	RF14B7 (Rx Frame14 Bit7)	Indicates that bit 7 of frame 14 in Rx line is 1.
DB7	RF14B8 (Rx Frame14 Bit8)	Indicates that bit 8 of frame 14 in Rx line is 1.

■ RXFas2 Status Register

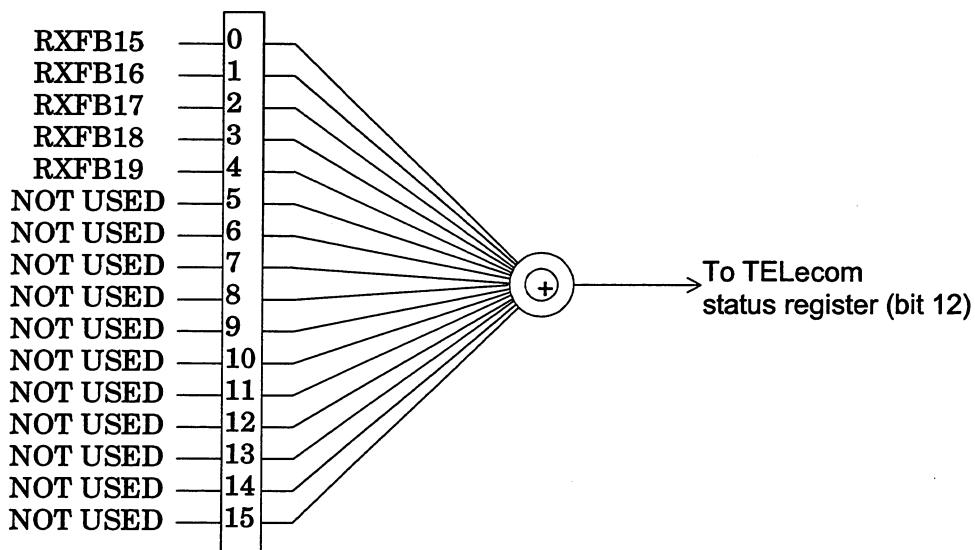


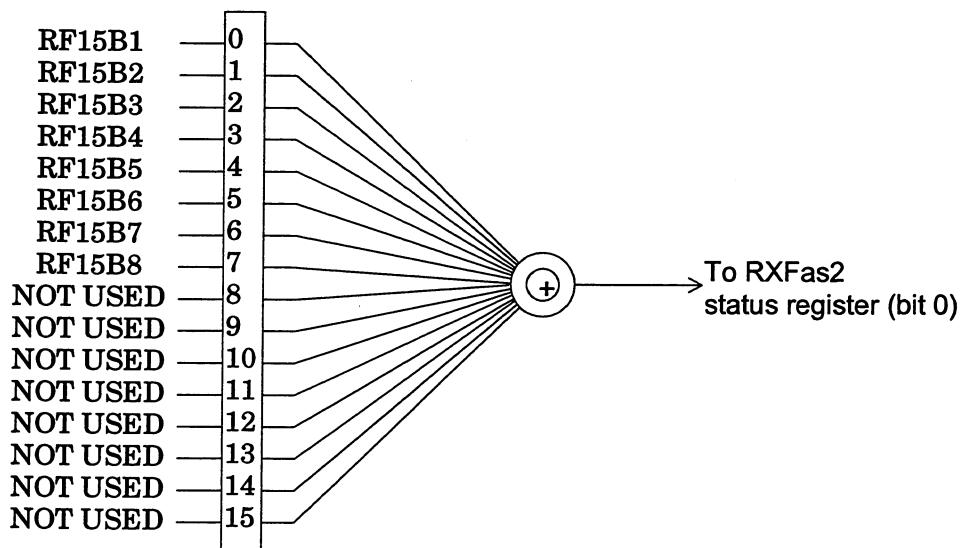
Fig. 7.4-80 RXFas2 Status Register

Table 7.4-81 Bit Definition of RXFas2 Status Register

Bit	Mnemonic	Description
DB0	RXFB15 (RXFB15 status register summary)	RXFB15 Status Register Summary
DB1	RXFB16 (RXFB16 status register summary)	RXFB16 Status Register Summary
DB2	RXFB17 (RXFB17 status register summary)	RXFB17 Status Register Summary
DB3	RXFB18 (RXFB18 status register summary)	RXFB18 Status Register Summary
DB4	RXFB19 (RXFB19 status register summary)	RXFB19 Status Register Summary

## SECTION 7 STATUS REPORT

### ■ RXFBit15 Status Register



**Fig. 7.4-81 RXFBit15 Status Register**

**Table 7.4-82 Bit Definition of RXFBit15 Status Register**

Bit	Mnemonic	Description
DB0	RF15B1 (Rx Frame15 Bit1)	Indicates that bit 1 of frame 15 in Rx line is 1.
DB1	RF15B2 (Rx Frame15 Bit2)	Indicates that bit 2 of frame 15 in Rx line is 1.
DB2	RF15B3 (Rx Frame15 Bit3)	Indicates that bit 3 of frame 15 in Rx line is 1.
DB3	RF15B4 (Rx Frame15 Bit4)	Indicates that bit 4 of frame 15 in Rx line is 1.
DB4	RF15B5 (Rx Frame15 Bit5)	Indicates that bit 5 of frame 15 in Rx line is 1.
DB5	RF15B6 (Rx Frame15 Bit6)	Indicates that bit 6 of frame 15 in Rx line is 1.
DB6	RF15B7 (Rx Frame15 Bit7)	Indicates that bit 7 of frame 15 in Rx line is 1.
DB7	RF15B8 (Rx Frame15 Bit8)	Indicates that bit 8 of frame 15 in Rx line is 1.

■ RXFBit16 Status Register

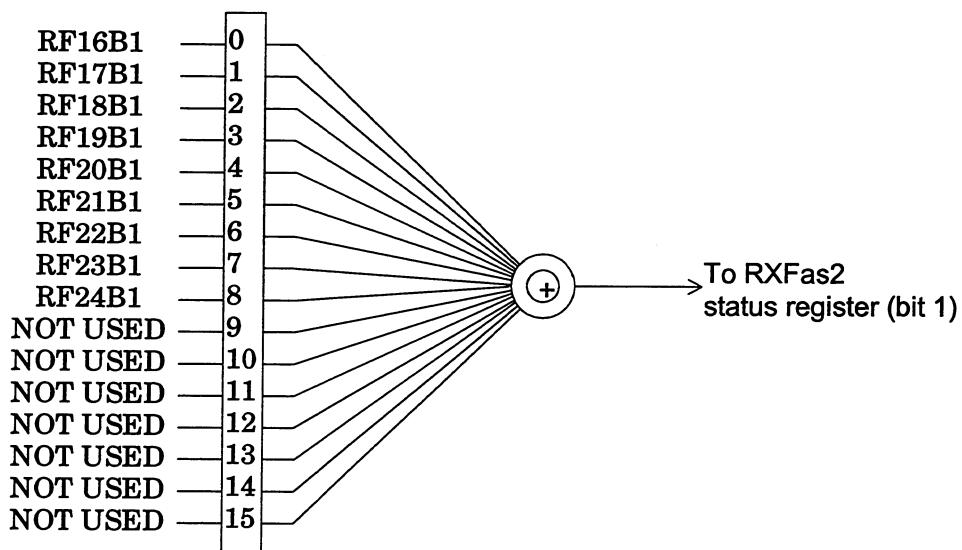


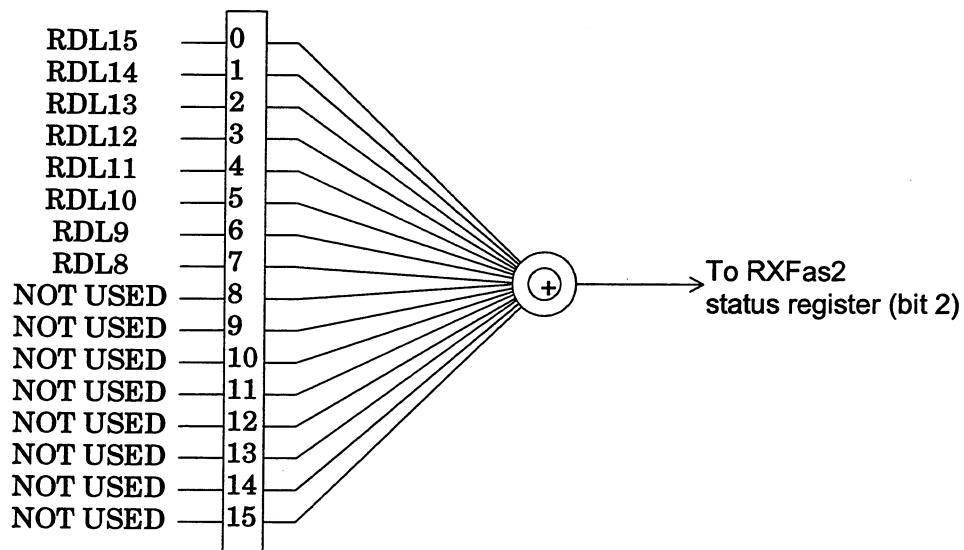
Fig. 7.4-82 RXFBit16 Status Register

Table 7.4-83 Bit Definition of RXFBit16 Status Register

Bit	Mnemonic	Description
DB0	RF16B1 (Rx Frame16 Bit1)	Indicates that bit 1 of frame 16 in Rx line is 1.
DB1	RF17B1 (Rx Frame17 Bit1)	Indicates that bit 1 of frame 17 in Rx line is 1.
DB2	RF18B1 (Rx Frame18 Bit1)	Indicates that bit 1 of frame 18 in Rx line is 1.
DB3	RF19B1 (Rx Frame19 Bit1)	Indicates that bit 1 of frame 19 in Rx line is 1.
DB4	RF20B1 (Rx Frame20 Bit1)	Indicates that bit 1 of frame 20 in Rx line is 1.
DB5	RF21B1 (Rx Frame21 Bit1)	Indicates that bit 1 of frame 21 in Rx line is 1.
DB6	RF22B1 (Rx Frame22 Bit1)	Indicates that bit 1 of frame 22 in Rx line is 1.
DB7	RF23B1 (Rx Frame23 Bit1)	Indicates that bit 1 of frame 23 in Rx line is 1.
DB8	RF24B1 (Rx Frame24 Bit1)	Indicates that bit 1 of frame 24 in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit17 Status Register



**Fig. 7.4-83 RXFBit17 Status Register**

**Table 7.4-84 Bit Definition of RXFBit17 Status Register**

Bit	Mnemonic	Description
DB0	RDL15 (Rx DL bit 15)	Indicates that the DL bit (bit 15) in Rx line is 1.
DB1	RDL14 (Rx DL bit 14)	Indicates that the DL bit (bit 14) in Rx line is 1.
DB2	RDL13 (Rx DL bit 13)	Indicates that the DL bit (bit 13) in Rx line is 1.
DB3	RDL12 (Rx DL bit 12)	Indicates that the DL bit (bit 12) in Rx line is 1.
DB4	RDL11 (Rx DL bit 11)	Indicates that the DL bit (bit 11) in Rx line is 1.
DB5	RDL10 (Rx DL bit 10)	Indicates that the DL bit (bit 10) in Rx line is 1.
DB6	RDL9 (Rx DL bit 9)	Indicates that the DL bit (bit 9) in Rx line is 1.
DB7	RDL8 (Rx DL bit 8)	Indicates that the DL bit (bit 8) in Rx line is 1.

■ RXFBit18 Status Register

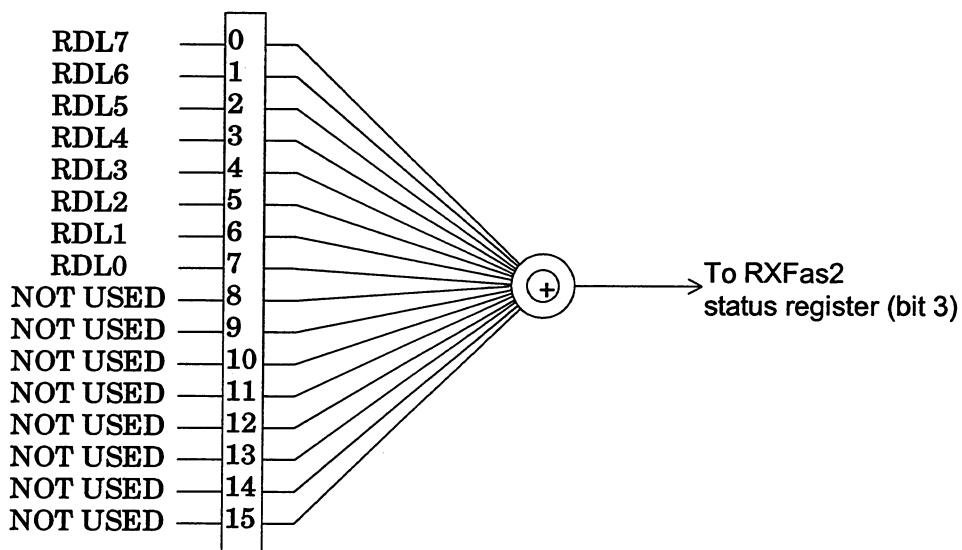


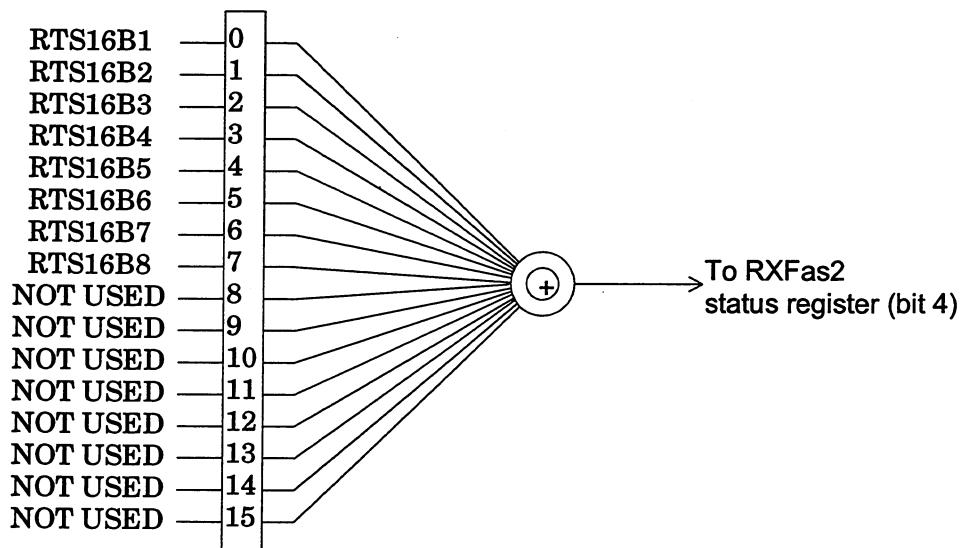
Fig. 7.4-84 RXFBit18 Status Register

Table 7.4-85 Bit Definition of RXFBit18 Status Register

Bit	Mnemonic	Description
DB0	RDL7 (Rx DL bit 7)	Indicates that the DL bit (bit 7) in Rx line is 1.
DB1	RDL6 (Rx DL bit 6)	Indicates that the DL bit (bit 6) in Rx line is 1.
DB2	RDL5 (Rx DL bit 5)	Indicates that the DL bit (bit 5) in Rx line is 1.
DB3	RDL4 (Rx DL bit 4)	Indicates that the DL bit (bit 4) in Rx line is 1.
DB4	RDL3 (Rx DL bit 3)	Indicates that the DL bit (bit 3) in Rx line is 1.
DB5	RDL2 (Rx DL bit 2)	Indicates that the DL bit (bit 2) in Rx line is 1.
DB6	RDL1 (Rx DL bit 1)	Indicates that the DL bit (bit 1) in Rx line is 1.
DB7	RDL0 (Rx DL bit 0)	Indicates that the DL bit (bit 0) in Rx line is 1.

## SECTION 7 STATUS REPORT

### ■ RXFBit19 Status Register



**Fig. 7.4-85 RXFBit19 Status Register**

**Table 7.4-86 Bit Definition of RXFBit19 Status Register**

Bit	Mnemonic	Description
DB0	RTS16B1 (Rx TS16 frame0 Bit 1)	Indicates that the TS16 Frame0 bit (bit 1) of Rx line is 1.
DB1	RTS16B2 (Rx TS16 frame0 Bit 2)	Indicates that the TS16 Frame0 bit (bit 2) of Rx line is 1.
DB2	RTS16B3 (Rx TS16 frame0 Bit 3)	Indicates that the TS16 Frame0 bit (bit 3) of Rx line is 1.
DB3	RTS16B4 (Rx TS16 frame0 Bit 4)	Indicates that the TS16 Frame0 bit (bit 4) of Rx line is 1.
DB4	RTS16B5 (Rx TS16 frame0 Bit 5)	Indicates that the TS16 Frame0 bit (bit 5) of Rx line is 1.
DB5	RTS16B6 (Rx TS16 frame0 Bit 6)	Indicates that the TS16 Frame0 bit (bit 6) of Rx line is 1.
DB6	RTS16B7 (Rx TS16 frame0 Bit 7)	Indicates that the TS16 Frame0 bit (bit 7) of Rx line is 1.
DB7	RTS16B8 (Rx TS16 frame0 Bit 8)	Indicates that the TS16 Frame0 bit (bit 8) of Rx line is 1.

■ INSTRument Status Register

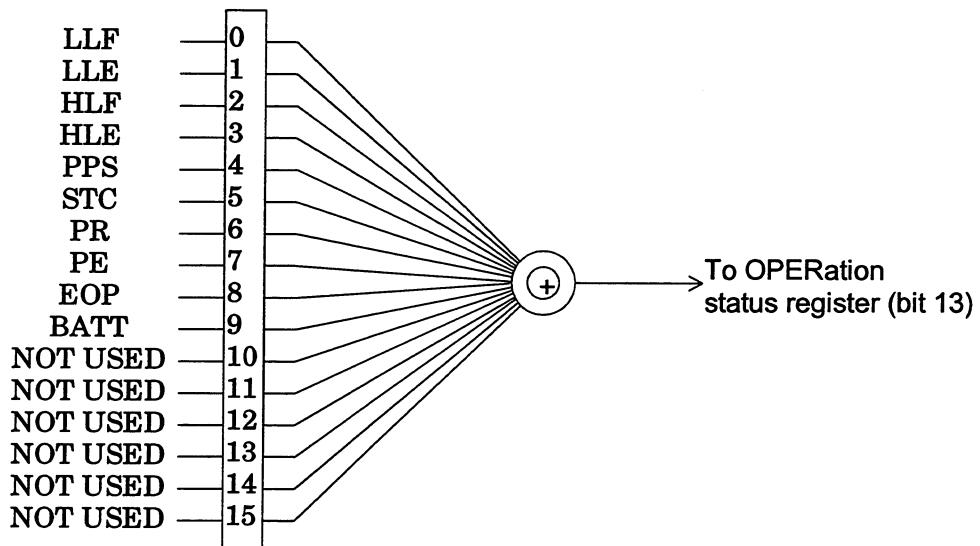


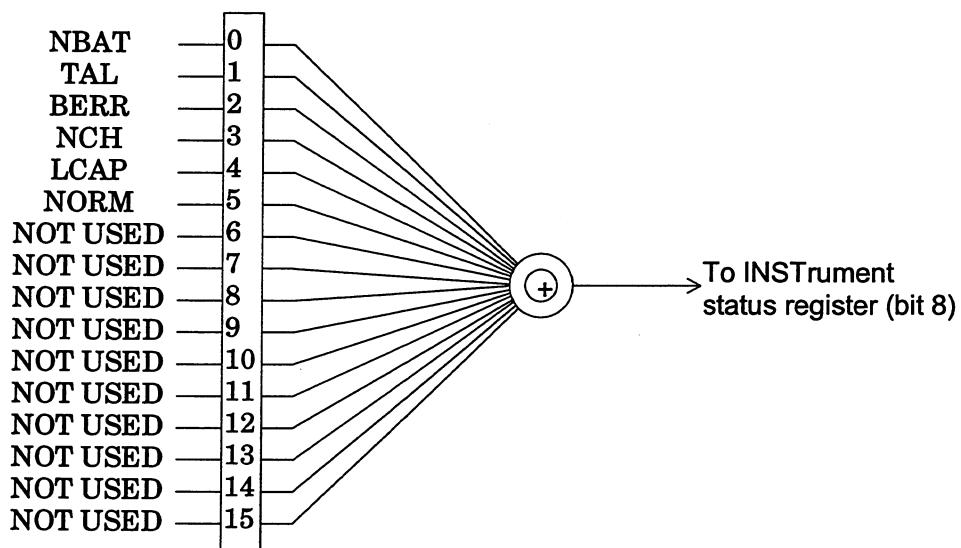
Fig. 7.4-86 INSTRument Status Register

Table 7.4-87 Bit Definition of INSTRument Status Register

Bit	Mnemonic	Description
DB0	LLF (Logging Log Full)	Indicates that the Logging log becomes full. ( $\_ \wedge \_$ occurrence like pulse)
DB1	LLE (Logging Log Empty)	Indicates that the Logging log is empty.
DB2	HLF (Histogram Log Full)	Indicates that the Histogram log becomes full. ( $\_ \wedge \_$ occurrence like pulse)
DB3	HLE (Histogram Log Empty)	Indicates that the Histogram log is empty. ( $\_ \wedge \_$ occurrence like pulse)
DB4	PPS (Period Per Second)	Indicates the timing of period per second. ( $\_ \wedge \_$ occurrence like pulse)
DB5	STC (Self Test Complete)	Indicates that the self test has been completed. ( $\_ \wedge \_$ occurrence like pulse)
DB6	PR (Print Now)	Indicates that the data is being printed with "Print Now".
DB7	PE (Printer Error)	Indication that print error occurred. ( $\_ \wedge \_$ occurrence like pulse)
DB8	EOP (End Of Printer Period)	Indicates the timing of printer intermediate printing. ( $\_ \wedge \_$ occurrence like pulse)
DB9	BATT (BATTery status register summary)	BATTery Status Register Summary

## SECTION 7 STATUS REPORT

### ■ BATTery Status Register



**Fig. 7.4-87 BATTery Status Register**

**Table 7.4-88 Bit Definition of BATTery Status Register**

Bit	Mnemonic	Description
DB0	NBAT (No BATtery)	No battery
DB1	TAL (Temperature ALarm)	Temperature alarm
DB2	BERR (Battery ERRobt)	Battery error
DB3	NCH (Now CHarging)	Now charging
DB4	LCAP (Low CAPacity)	Charging required
DB5	NORM (NORMal)	Discharging or fully charged

## **SECTION 8    ERROR MESSAGES**

## SECTION 8 ERROR MESSAGE

### 8.1 Command Error

Error codes [-199 to -100] indicate that a IEEE488.2 syntax error occurred. Concurrently, the bit 5 of device's event status register is set.

An error occurs when any of the following events occurs.

- When the device receives a message against the IEEE488.2 standard.
- When the device receives a header that does not conform to the specifications of device-specific commands and common commands.
- When a GET (Group Execute Trigger) is sent into a program message.

**Table 8.1-1 Error messages for command errors**

Code	Message	Error detection condition
-101	Invalid character	An invalid character is included in a header or parameter. Ex. : Case where a header includes #: :SENSe:TELecom:#INTerface K192 Case where a parameter includes \$: :SENSe:TELecom:INTerface K\$192
-104	Data type error	The parameter type differs from the specified type. Ex. : Case where a parameter sends data of character type to a command that accepts only numeric data: :SENSe:TELecom:TSN B2
-105	GET not allowed	A Group Execute Trigger has been sent into a program message (this is ignored for the RS-232C control).
-108	Parameter not allowed	The number of parameters does not agree with the defined (required) number. Ex. : Case where a command of one parameter required receives two parameters: :SENSe:TELecom:INTerface K192,V24 Case where a command of parameters required does not have any parameters specified: :CALCulate:MDATa:SET
-112	Program mnemonic too long	The number of program mnemonics is 12 or more. Ex. : Case where a colon (:) is omitted in a header: :SENSe:TELecomINTerface K192
-113	Undefined header	The header syntax is correct but is not defined in the device. Ex. : Case where a wrong header is included: :SENSe:TELecom:INTorface K192 Case where the following command is sent without call control option: :SYSTem:DCONNECT:STARt
-120	Numeric data error	An error is found in the numeric data.

## 8.1 Command Error

Code	Message	Error detection condition
-121	Invalid character in number	An invalid character is included in the numeric data. Ex. : Case where numeric data includes a symbol: :SENSe:TELecon:TSN 3\$
-130	Suffix error	An error is found in the suffix. Ex. : Case where alphabetic letters are specified as part of numeric data that is required by a parameter: :SENSe:TELecon:TSN 3I
-144	Character data too long	The character data length is 12 or more.
-150	String data error	The string data is against the specification. Ex. : Case where single quotation mark and double quotation mark are not properly paired: :SENSe:TELecon:BRATe 'BPS9600"

## SECTION 8 ERROR MESSAGE

### 8.2 Execution Error

Error codes [-299 to -200] indicate that an error occurred in the execution control unit in the device. When an error occurred, the event status register bit 4 is set.

An error occurs when any of the following events occurs.

- When <PROGRAM DATA> followed by the header is against the device specification.
- When a program message cannot be executed because of the device condition.

**Table 8.2-1 Error messages for execution errors**

Code	Message	Error detection condition
-220	Parameter error	An error is found in the parameter.
-221	Setting conflict	The parameter is correct but cannot be set because of the device condition.
-222	Data out of range	The numeric data exceeds the specified range. Ex. : :SENSe:TELecom:TSN 256 :SENSe:TELecom:TSLot:TSASsign 0,1,2
-223	Too much data	The string data length exceeds the specified range. Ex. : Case where the following 9 bits are specified for a parameter whose string's length must be 8 bits: :SOURce:TELecom:ITSLot "010101010"
-224	Illegal parameter value	The received parameter cannot be used. Ex. : Case where a specified character data falls outside the specification: :SENSe:TELecom:INTerface K191
-241	Hardware missing	The command cannot be executed because the option is not installed.
-250	Mass storage error	Case where an error occurred in floppy disk. The rest errors except the following ones related to floppy disks becomes the main frame errors.
-252	Missing media	There is no disk in the FDD.
-254	Media full	There is no room on the disk.
-258	Media protected	The write-protect tab on a disk was present.

### 8.3 Device Specific Error

Error codes [-399 to -300] indicate that an error other than command error, query error or execution error occurred. Device-specific errors contain failures of hardware/software and self-test errors. When a device-specific error occurred, the event status register bit 3 is set.

**Table 8.3-1 Error messages for device specific errors**

Code	Message	Error detection condition
-310	System error	A system error occurred.
-314	Save/recall memory lost	Local memory is lost.
-315	Configuration memory lost	Resume memory is lost.
-330	Self-test failed	Selftest is failed.

## SECTION 8 ERROR MESSAGE

### 8.4 Query Error

Error codes [-499 to -400] indicates that an error (regarding the message exchange control protocol in the device output queue control) occurred. When a error of this type occurred, the event status register bit 2 is set.

A query error occurs when any of the following events occurs.

- When the system attempts to read a data from the output queue that has no output data.
- When the output queue data is lost.

**Table 8.4-1 Error Messages of Query Error**

Code	Message	Error detection condition
-410	Query INTERRUPTED	Before the device finishes sending the response message, a new command interrupts. Ex. : When *TRG command is sent before completing the send of the response.
-420	Query UNTERMINATED	A query (corresponding to the response message to be read) is not sent. The query has not been completely sent.
-430	Query DEADLOCKED	The system attempts to read data which exceeds the empty area for storage. Ex. : When the device cannot continue measurement because both input and output storage areas are full.

## **SECTION 9 SAMPLE PROGRAM**

## SECTION 9 SAMPLE PROGRAM

### 9.1 Development Environment and Overview

---

This section provides a sample program of the MD6430A.

Assuming the IBM-PC/AT or computers compatible with it as the host controller, the program is developed. Also, the sample program runs on the Windows 95®.

The language used for making the program is the Microsoft® Visual Basic® Version 4.0 Professional Edition.

The sample program can control the MD6430A via a remote interface of the RS-232C or GPIB, and execute the following functions.

- **Error/Alarm Measurement**

Allows to send/receive test patterns and to perform error measurement. Also, this function allows to monitor the alarm state, and obtain information on the status in which an alarm occurs. Measured results are obtained for every one second.

- **Error insertion**

Allows error insertion.

- **Alarm send**

Allows AIS and RAI alarm insertion.

The sample programs use the National Instruments-made GPIB board (AT-GPIB/TNT(PNP)). Set the GPIB board as follows:

Interface Name	: GPIB0
GPIB Primary Address	: 0
GPIB Secondary Address	: NONE
I/O Timeout	: 10sec
System Controller	: Enable
Send EOI at end of Write	: Enable
Terminate Read on EOS	: Disable
Set EOI with EOS on Write	: Disable
8-bit EOS Compare	: Disable
EOS Byte	: 0
Bus Timing	: 2usec
Parallel Poll Duration	: Default
Cable Length for HS488	: Off
Automatic Serial Polling	: Enable
Assert REN when SC	: Enable
CIC Protocol	: Disable
Demand Mode DMA	: Disable

## **9.1 Development Environment and Overview**

To use the remote interface of the GPIB, dynamic link library (gpib-32.dll) that comes with the GPIB board is required.

When using only the RS-232C remote interface, select either Comm1, Comm2, or Comm3 at the Start screen (refer to "9.4 Execution of Sample Program.").

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**Note** : In general, the response message is returned as soon as the query command is received; but exceptionally, the response message may not be returned depending on the communication conditions. This should be considered when developing the remote control programs (for example, take a preventive action such as timeout).

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## **SECTION 9 SAMPLE PROGRAM**

### **9.2 Operation Details of Sample Program**

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For this sample program, the following three different states are assumed:

- (a) When the sample program is started; it performs initialization and enters into the wait state for button event, the timer interruption event, and the termination event. Timer interruption occurs periodically, and the common alarm monitor and the signal line alarm monitor are monitored, and then monitored information is reflected on the lamp of the form.

When the Error/Alarm measurement button is pressed, the program enters into the state of (b), below. If another event occurs; the program performs the appropriate processing, and returns to the event wait state for button, timer interruption, or termination.

- (b) The program starts Error/Alarm measurement, and monitors the measuring state. At the same time, the program enters into the wait state for button event, the timer interruption event and the termination event.

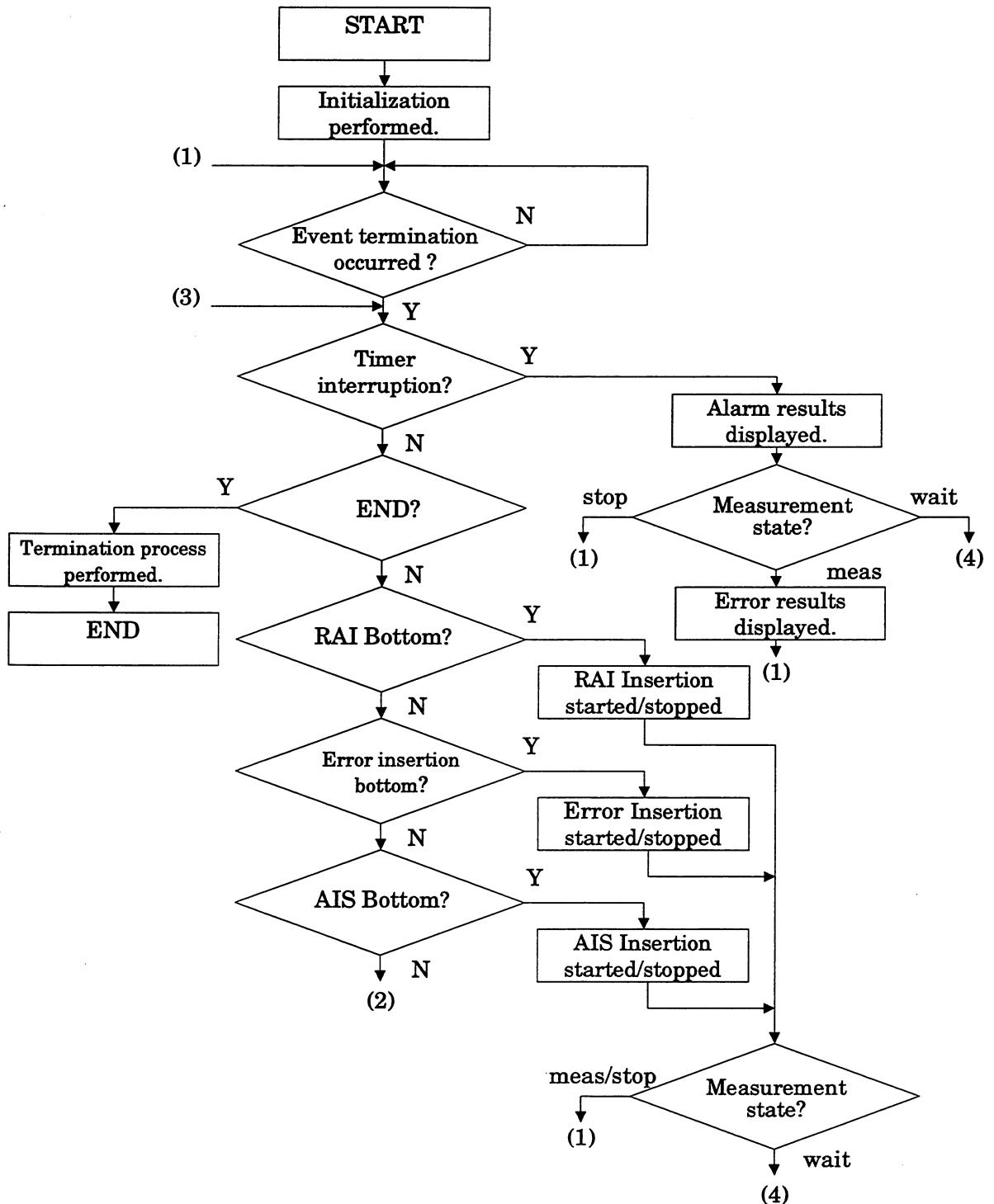
When each processing completed, the program monitors the measuring state and enters one of the following states:

- If Error/Alarm measurement is stopped, returns to the state of (a).
- If measurement is in the PSL establishment wait state, the program returns to the state of (b).
- If Error/Alarm measurement is started, the program returns to the state of (c), below.

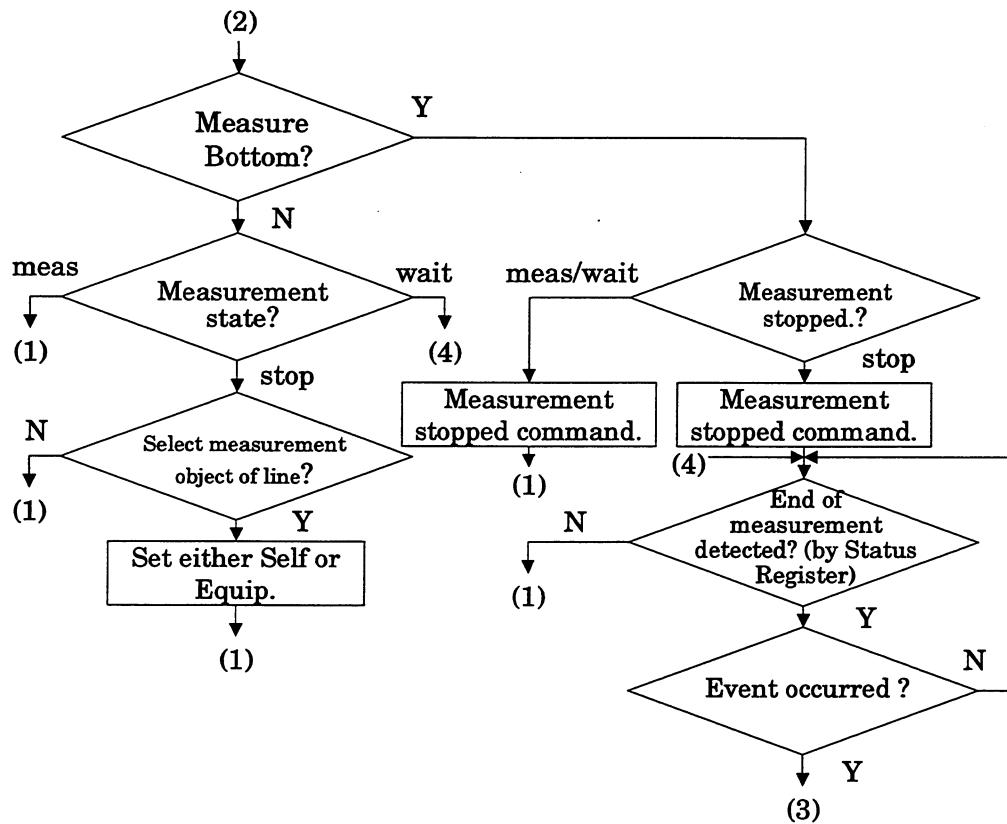
- (c) With start of Error/Alarm measurement, the program enters into the event wait state for event/interruption/termination. In the event wait state; the measured results on the error count and the error rate are periodically obtained by interruption, and the common alarm monitor and the signal line alarm monitor are checked, and then results are reflected on the display areas of the form. When the Error/Alarm measurement button is pressed, the program stops measurement and enters into the state of (a). If any other event occurs, the program performs the required processing and returns to the event wait state for button, timer interruption or termination.

For functions of the sample program, see the flowcharts on the next pages.

### 9.2.1 Flowchart



## **SECTION 9 SAMPLE PROGRAM**



### **9.3 Setup of Sample Program and Sample Program Source**

## **9.3 Setup of Sample Program and Sample Program Source**

---

On the controller, install the sample program and the source file in the following procedure.

- (1) Close all other applications, and restart Windows.
- (2) Insert the Remote Sample Disk shipped with the MD6430A into the floppy disk drive.
- (3) From the start menu, select the "Specify file name and execute...", enter "A:\\$SETUP.EXE", and press "OK" button.
- (4) According to instructions displayed on the screen, continue the processing.

When installation is completed successfully, the following files are copied into the specified directory.

SAMPLE.EXE	FRMMAIN.FRM	FRMMAIN.FRX	SAMPLE.VBP
COMMON.BAS	RS232C.BAS	FRMSPORT.FRX	FRMSPORT.FRM
GPIB.BAS	GPIB_DEF.BAS		

Among these files, the SAMPLE.EXE is the executable file of the sample program. Also, the SAMPLE.VBP is a file for the Visual Basic ® Version 4.0 which manages the source file of the sample program. For referring to the source codes, open the SAMPLE.VBP file by "Open the project file" command in the Visual Basic ® Version 4.0.

## SECTION 9 SAMPLE PROGRAM

### 9.4 Execution of Sample Program

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This paragraph describes the procedure for executing the sample program.  
For details of each screen, refer to paragraph 5 "Screen Descriptions", below.

- (1) Execute "Explorer" or "Specify file name and execute" command to start the sample program, and then the screen used for selection of RS-232C or GPIB port appears.

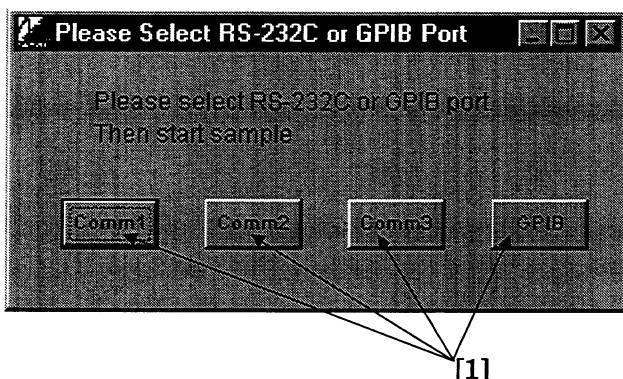
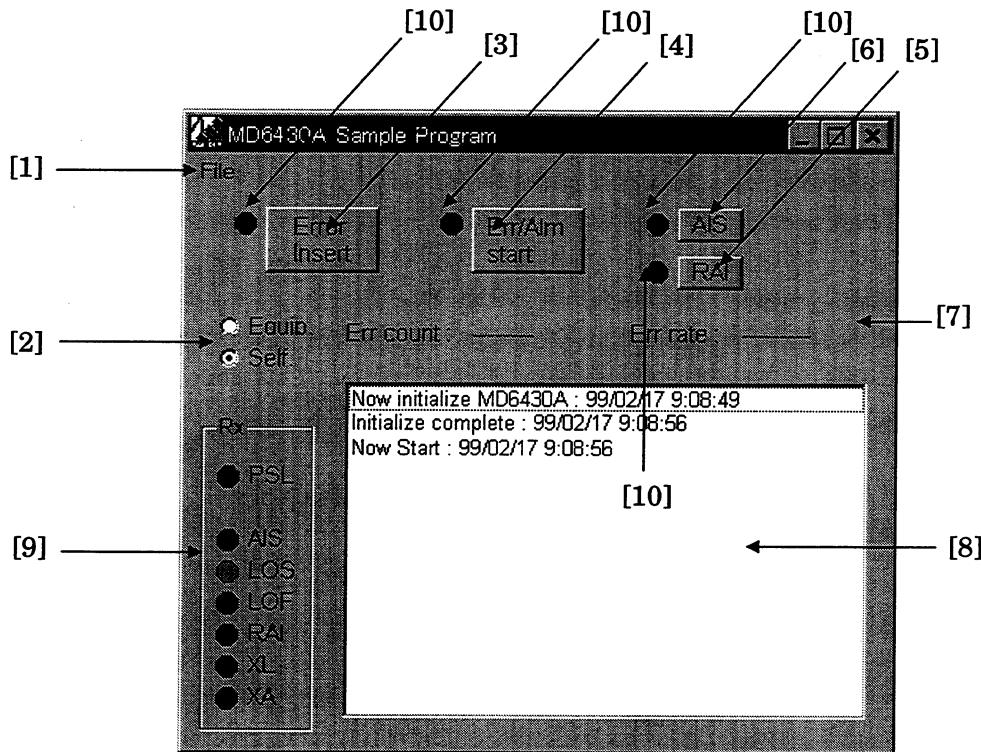


Fig. 9.4-1 Start Screen

- (2) Select the port used by the remote controller with the port selection buttons ([1] in figure) and click the button.
- (3) The screen for selection of RS-232C or GPIB port is closed, and the main screen of the sample program appears. When the screen appears, remote control to the MD6430A starts, and the initialization is performed.  
Items set by the initialization are described in paragraph 7 "Set Conditions after Sample Program Executed".

#### 9.4 Execution of Sample Program



**Fig. 9.4-2 Sample Program Main Screen**

- (4) Select the measured objects on the evaluated-line selection items ([2] in figure). When the initialization completed, the program enters into the wait state for measurement start
- (5) To start error insertion or alarm insertion, click either of the below buttons.
  - [3]Error Insert button : Starts or stops error insertion.
  - [5]RAI button and [6]AIS button : Starts or stops alarm insertion.

To start or stop Error/Alarm measurement, click the button [4] which takes the following three states:

- Err/Alm stop button : Starts Error/Alarm measurement.
- Err/Alm start button : Stops Error/Alarm measurement.
- wait button : PSL establishment wait state to start Error/Alarm measurement

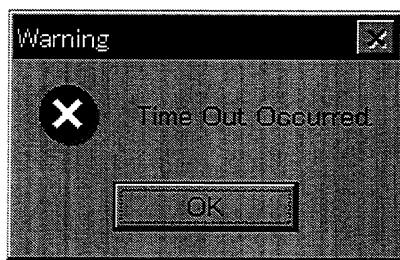
After the button [4] clicked, the above three states are changed to the following three states, respectively:

- Err/Alm start button : Starts Error/Alarm measurement.
- Err/Alm stop button : Stops Error/Alarm measurement.
- wait button : Stops Error/Alarm measurement.

- (6) Operations of start/stop measurement and insert/stop error or alarm are indicated in the operation state display area [8] and the state display lamp area [10].

## SECTION 9 SAMPLE PROGRAM

- (7) Results of Error/Alarm measurement are displayed in the error measured result display area [7].  
Results of the common alarm monitor and the signal line alarm monitor are displayed in the alarm display area [9].
- (8) If time-out occurs on the remote control of RS-232C or GPIB, an error message screen is displayed with the corresponding error message, and the current measurement is canceled, and the sample program terminates.



**Fig. 9.4-3 Error Message Screen**

- (9) To terminate the sample program, select the Exit item [1].

## 9.5 Screen Descriptions

This paragraph describes each screen layout according to the execution of the sample program.

- Start screen

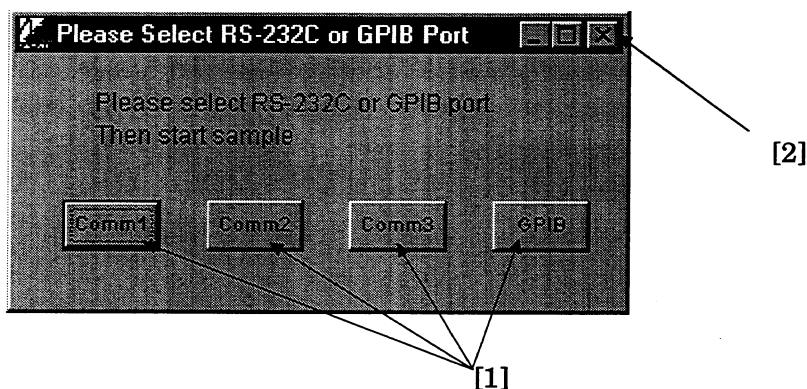


Fig. 9.5-1 Start Screen

NO.	Item	Description
[1]	Port selection button	Selects the RS-232C or GPIB port for remote control of the MD6430A.
[2]	Close button	Exits the start screen, and terminates the sample program.

## SECTION 9 SAMPLE PROGRAM

### ● Main program screen

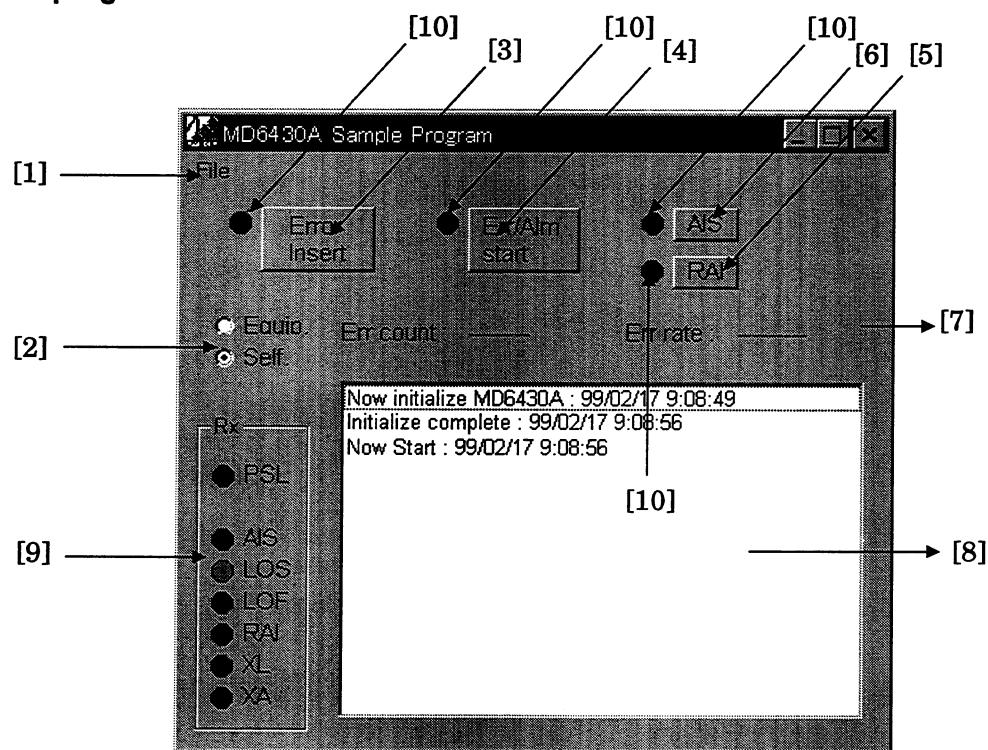


Fig. 9.5-2 Main Screen of Sample Program

NO.	Item	Description
[1]	Menu bar	The "Exit" item of the File menu terminates the sample program.
[2]	Evaluated-line selection items	Use either of the following two methods to evaluate the measured object. <ul style="list-style-type: none"> <li>• Self Loop ("Self") : Data is sent and received (or, loop backed) to/from the MD6430A itself.</li> <li>• Equipment ("Equip."): The MD6430A is connected to the measured object (such as DSU).</li> </ul>
[3]	Error Insertion button	Starts or stops the error insertion. The lamp on the left of the button indicates the current state: Green : Error insertion in progress Black : Insertion stopped Each time this button clicked, start and stop of error insertion is switched.

## 9.5 Screen Descriptions

NO.	Item	Description
[4]	Err/Alm start button wait button Err/Alm stop button	<p>Starts or stops Error/Alarm measurement, as described below. The label shown on the button indicates the current state of Error/Alarm measurement:</p> <p>Err/Alm start : Measurement stopped wait : Wait state for PSL establishment of measurement Err/Alm stop : Measurement in progress for every one second</p> <p>When the Err/Alm start button clicked, the state of measurement is changed to the wait state for measurement start, and "wait" is displayed on the button.</p> <p>When measurement starts, "Err/Alm stop" is displayed on the button.</p> <p>When the wait button or the Err/Alm stop button clicked, measurement is terminated.</p> <p>Also, color of the lamp on the left of the button changes depending on the button label:</p> <p>Err/Alm start : Black wait : Green Err/Alm stop : Green</p>
[5]	RAI button	<p>Starts or stops RAI alarm send, as described below. The lamp on the left of the button indicates the current state:</p> <p>Green : Sending RAI alarm Black : Insertion stopped.</p> <p>Each time this button clicked, start and stop of RAI alarm send is switched.</p>
[6]	AIS button	<p>Starts or stops AIS alarm send. The lamp on the left of the button indicates the current state:</p> <p>Green : Sending AIS alarm Black : Insertion stopped.</p> <p>Each time this button clicked, start and stop of AIS alarm send is switched.</p>
[7]	Error/Alarm measurement result display area	Displays the error count and the error rate obtained from Error/Alarm measurement.
[8]	Operating state display area	Indicates the current progress.
[9]	Alarm display area	<p>In a state other than the wait state for PSL establishment of Error/Alarm measurement, displays the information on the common alarm monitor and the signal line alarm monitor, whose information is obtained by timer interruption.</p> <p>Displayed information is refreshed for every one second.</p>
[10]	State display lamp	Indicates the current state of measurement, and the insertion/stop state of error and alarm.

## SECTION 9 SAMPLE PROGRAM

- Error message screen

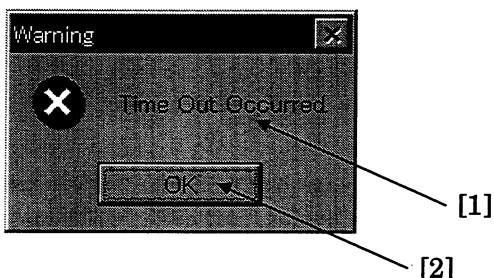


Fig. 9.5-3 Error Message Screen

NO.	Item	Description
[1]	Message display area	<ul style="list-style-type: none"><li>• Time Out occurred.</li><li>• GPIB error!! iberr = xx</li></ul> <p>Either of the above error messages appears.</p>
[2]	OK button	Closes the error message screen, and terminates the sample program.

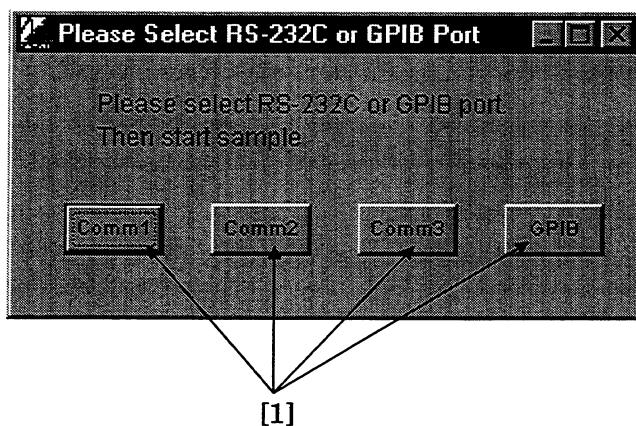
## 9.6 Program Configuration

---

The sample program consists of two form modules and two code modules. This paragraph describes the outline of each module.

- **frmSelectPort**

The frmSelectPort is a form that selects and sets the remote interface. The control on this form and the outline are described, below.



**Fig. 9.6-1 Foam of frmSelectPort (at designing)**

**Table 9.6-1 Control on frmSelectPort**

	Type	Control Name	Outline
[1])	Button	Port(1) to Port(3) Port(4)	Buttons for selection of RS-232C port Button for selection of GPIB port

**Table 9.6-2 Event Handler of frmSelectPort**

Name of Event handler	Outline
frmSelectPort_Load	Occurs only once at execution of the program.
Port(1)_Click	Sets the RS-232C port to Comm1 and terminates the form. Then, <b>frmMain form is executed</b> .
Port(2)_Click	Sets the RS-232C port to Comm2 and terminates the form. Then, <b>frmMain form is executed</b> .
Port(3)_Click	Sets the RS-232C port to Comm3 and terminates the form. Then, <b>frmMain form is executed</b> .
Port(4)_Click	Sets the GPIB port and terminates the form. Then, <b>frmMain form is executed</b> .

## SECTION 9 SAMPLE PROGRAM

### ● frmMain.frm

The frmMain form is a form that controls the MD6430A remotely, and displays the results. Also, according to the menu selection by the user, it terminates the sample program. The control on this form and the outline are described, below.

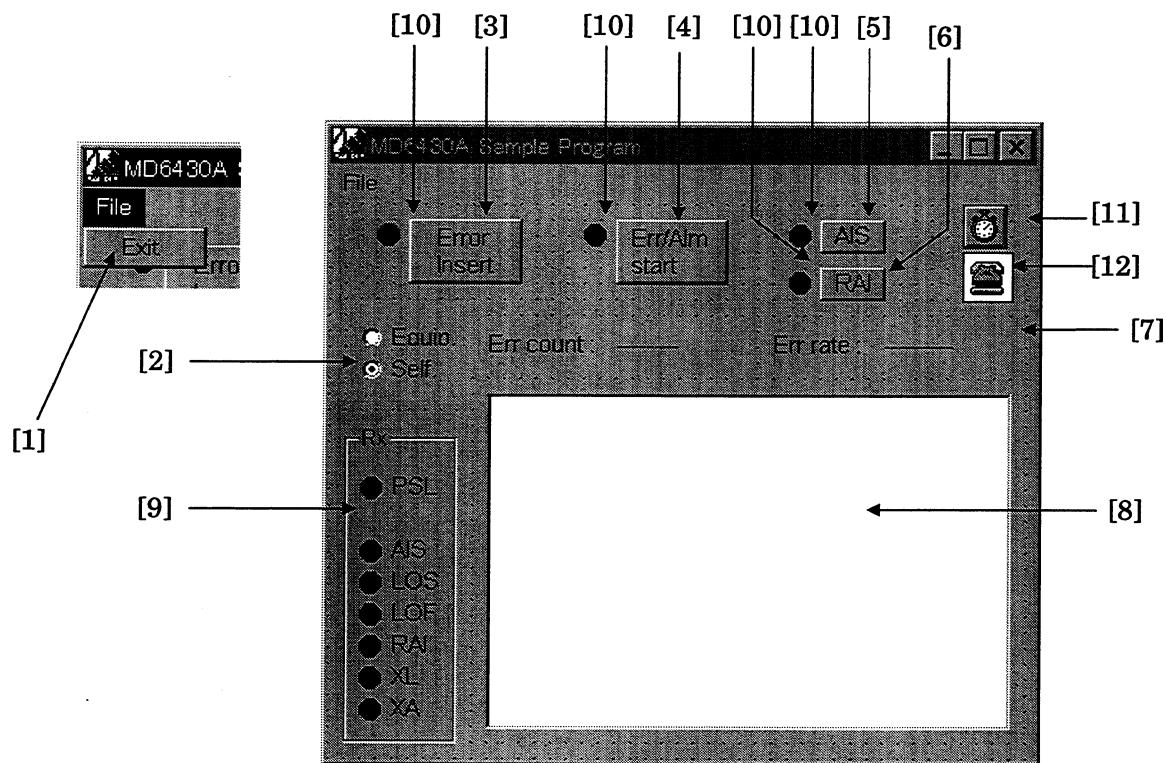


Fig. 9.6-2 Form of frmMain (at designing)

## 9.6 Program Configuration

**Table 9.6-3 Controls on frmMain**

	Type	Control Name	Outline
[1]	Menu	mnuExit	Terminates the program.
[2]	Option button	MObj(0) to MObj(1)	Selects Self Loop or Equipment, below. <ul style="list-style-type: none"> <li>- Self Loop: Signals are sent and received (or, loop-backed) to/from the MD6430A itself.</li> <li>- Equipment: The MD6430A is connected to the measured object (such as modem).</li> </ul>
[3]	Button	CmdErrIns	Starts or stops error insertion.
[4]	Button	CmdMeasure	Starts or stops Error/Alarm measurement.
[5]	Button	CmdRAI	Starts or stops RAI alarm send.
[6]	Button	CmdAIS	Starts or stops AIS alarm send.
[7]	Label	LabelErrCount, LabelErrRate, ErrCount, ErrRate	Displays the error count and the error rate at Error/Alarm measurement.
[8]	List box	IstRCmdRsp	Indicates the current progress of measurement.
[9]	Shape	LmpPLS, LmpLOS, LmpLOF, LmpAIS,LmXA, LmpRAI, LmpXL	Indicates the status of alarm.
[10]	Shape	LmpErrIns, LmpErrAlmmeas, LmpAISIns, LmpRAIIns	Indicates the states of Error/Alarm measurement, alarm insertion/stop, or error insertion/stop.
[11]	Timer	Timer	Periodically obtains the measured results, and information on the common alarm monitor and the signal line alarm monitor.
[12]	Communication	Comm1	RS-232C interface

## SECTION 9 SAMPLE PROGRAM

Event handlers that handle the events occurred on this form, are shown in the following table.

**Table 9.6-4 Event Handler of frmMain**

Name of Event Handler	Outline
frmMain_Load	Occurs only once at program execution. Initializes the form, RS-232C and MD6430A.
mnuExit_Click	Occurs when Exit of the File menu is selected. Terminates this program.
cmdErrIns_Click	Occurs when the Error Insert button [3] is pressed, and performs remote control.
cmdErrAlmM_Click	Occurs when the Err/Alm start button [4] is pressed, and performs remote control.
cmdRAI_Click	Occurs when the RAI button [5] is pressed, and performs remote control.
cmdAIS_Click	Occurs when the AIS button [6] is pressed, and performs remote control.
Timer_Timer	Occurs by any interruption to obtain the results of Error/Alarm measurement and information on the common alarm monitor and the signal line alarm monitor periodically.

Functions and procedures used for the frmMain form are shown in the following tables.

Name of Function/Procedure	Outline
Init_frmMain	Initializes each component used on this form.
Init_MD6430A	Initializes the MD6430A by remote control.
ErrAlmGet	Obtains the results of Error/Alarm measurement and information on states of the common alarm monitor and signal line alarm monitor.
ErrAlmMstart	Starts Error/Alarm measurement.
LmpAL	Reflects the results of the common alarm monitor and the signal line alarm monitor on the alarm display area on this form.
MaskBottums	Mask all buttons on this form.
LogShow	Indicates the current progress.

## 9.6 Program Configuration

- **Comm.bas**

Comm.bas defines the functions and procedures for sending/receiving the remote commands, as shown below.

Name of Function/Procedure	Outline
ReceiveResponse	Receives the commands from the remote interface.
SendCommand	Sends the commands to the remote interface.
QuesCommand	Sends the query command, and receives the response.
SYSTERR	Sends the ":SYST:ERR?" command following to the set command, and returns the error message.

- **RS232C.bas**

RS232-C.bas defines the functions and procedures for sending/receiving remote commands via RS232-C interface, as shown below

Name of Function/Procedure	Outline
Open_232C	Opens RS-232C interface.
Close_232C	Closes RS-232C interface.
Out_232C	Saves the character strings at the send buffer of RS-232C interface.
IN_232C	Obtains the character strings from the receive buffer of RS-232C interface.

- **GPIB.bas**

GPIB.bas defines the functions and procedures for sending/receiving remote commands via GPIB interface as shown below:

Name of Function/Procedure	Outline
Open_GPIB	Opens GPIB interface.
Close_GPIB	Closes GPIB interface.
Out_GPIB	Saves the character strings at the send buffer of GPIB interface.
IN_GPIB	Obtains the character strings from the receive buffer of GPIB interface.
Error_Msg	Indicates error messages regarding GPIB interface.

- **GPIB\_Def.bas**

GPIB\_Def.bas describes various definitions to use the GPIB board.

## SECTION 9 SAMPLE PROGRAM

### 9.7 Set Conditions after Sample Program Executed

---

After the sample program executed, the MD6430A is set to the following conditions.

The following settings are based on the internal SelfLoop of the MD6430A. When performing a test through the connection to DSU via a network, apply the setting conditions suitable for the measurement environment.

- Set conditions for MD6430A

Interface used : G. 704 / I.431 1.544M

Interface I/O : 1out / 1in

**Table 9.7-1 Conditions for Setup Interface G.704/I.431 1.544M**

Item	Test Mode
Setting	Lease

**Table 9.7-2 Interface Conditions**

Item	Interface	code	Frame	Internal Freq. source	Time slot	Data bit rate
Tx	G. 704 / I.431 1.544M	B8ZS	24MFP(G.704)	Self	TSn=1	64k×24 =1536k
Rx	*1	B8ZS	24MFP(G.704)		TSn=1	64k×24 =1536k

\*1) SelfLoop or Same, depending on the measurement environment

Item	bit steal	Voice channel	Idle time slot	Input level
Tx	off	off	11111111	
Rx	off	off		Main

## 9.7 Set Conditions after Sample Program Executed

**Table 9.7-3 Measurement Conditions for Error/Alarm Measurement**

Item	Test Pattern	PRBS Invert	PSL Threshold	Error Detect	Block length	Mode	Program Start
Setting	PRBS20	off	Auto	Bit	1.0E01	Repeat : One second	off

Item	Master/ Slave	Octet pattern	Logging line	Histogram line	Histogram resolution	Performance	HDLC Frame Detect
Setting		11111111	off	off	off	off	off

Item	Frame relay detect
Setting	

**Table 9.7-4 Conditions for Error Insertion**

Item	ERR Type	Ins. rate
Setting	bit	1.0E-03

**Table 9.7-5 Conditions for RS-232C Remote Control**

Item	Speed	Character length	Parity	Stop bit	Flow Control
Setting	9600bit/s	8 bit	None	1 bit	XOn/XOff

**Table 9.7-6 GPIB Remote Setting**

Item	Address
Setting	1

## SECTION 9 SAMPLE PROGRAM

### 9.8 Source Program

---

- **frmSelectPort.frm**

```
Private Sub Command1_Click()
    'RS-232C Port1
    frmMain.Tag = "RS232C_1"
    Unload Me
End Sub

Private Sub Command2_Click()
    'RS-232C Port2
    frmMain.Tag = "RS232C_2"
    Unload Me
End Sub

Private Sub Command3_Click()
    'RS-232C Port3
    frmMain.Tag = "RS232C_3"
    Unload Me
End Sub

Private Sub Command4_Click()
    'GPIB
    frmMain.Tag = "GPIB"
    Unload Me
End Sub

Private Sub Form_Load()
    frmMain.Tag = ""
End Sub

Private Sub Form_Unload(Cancel As Integer)
    If frmMain.Tag = "" Then
        End
    End If
End Sub
```

● **frmMain.frm**

```

Private Sub cmdAIS_Click()
    Dim Rsp$
    MaskButtons (False)
    'Insert AIS Alarm
    If LmpAISIns.FillColor = QBColor(0) Then
        Rsp$ = SendCommand(":SOUR:TEL:ALAR:AIS 1")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ALAR:AIS?")
        Loop While Val(Rsp$) = 0
        LmpAISIns.FillColor = QBColor(10)
        LogShow ("AIS : On")
    Else
        Rsp$ = SendCommand(":SOUR:TEL:ALAR:AIS 0")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ALAR:AIS?")
        Loop While Val(Rsp$) = 1
        LmpAISIns.FillColor = QBColor(0)
        LogShow ("AIS : Off")
    End If
    MaskButtons (True)
End Sub

Private Sub cmdErrIns_Click()
    Dim Rsp$
    MaskButtons (False)
    'Insert Error set or relieve
    If LmpErrIns.FillColor = QBColor(0) Then
        Rsp$ = SendCommand(":SOUR:TEL:ERR:STAR")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ERR:STAT?")
        Loop While Val(Rsp$) = 0
        LmpErrIns.FillColor = QBColor(12)
        LogShow ("Error Insert : On")
    Else
        Rsp$ = SendCommand(":SOUR:TEL:ERR:STOP")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ERR:STAT?")
        Loop While Val(Rsp$) = 1
        LmpErrIns.FillColor = QBColor(0)
        LogShow ("Error Insert : Off")
    End If
    MaskButtons (True)
End Sub

```

## SECTION 9 SAMPLE PROGRAM

```
Private Sub CmdMeasure_Click()
    Dim Rsp$
    MaskButtons (False)
    'Measure Error/Alarm periodical
    If CmdMeasure.Caption = "Err/Alm start" Then
        Rsp$ = SendCommand(":SENS:MEAS:EAL:STAR")
        Do
            Rsp$ = QuesCommand(":SENS:MEAS:EAL:STAT?")
        Loop While Rsp$ = "STOP"
        LogShow ("Measure start")
        CmdMeasure.Caption = "Wait"
        LmpErrAlmmeas.FillColor = QBColor(10)
        ErrCount.Caption = "-----"
        ErrRate.Caption = "-----"
        MaskButtons (True)
        ErrAlmMstart 'Ready for measuring Error/Alarm
    Else
        Rsp$ = SendCommand(":SENS:MEAS:EAL:STOP")
        Do
            Rsp$ = QuesCommand(":SENS:MEAS:EAL:STAT?")
        Loop While Rsp$ <> "STOP"
        CmdMeasure.Caption = "Err/Alm start"
        LmpErrAlmmeas.FillColor = QBColor(0)
        LogShow ("Measure stop")
        Rsp$ = QuesCommand(":SENS:MEAS:EAL:STAT?")
        ErrAlmGet ' Get Error Count,Error Rate and Alarm Monitor
    End If
    MaskButtons (True)
End Sub

Private Sub cmdRAI_Click()
    Dim Rsp$
    MaskButtons (False)
    'Insert RAI Alarm
    If LmpRAIIns.FillColor = QBColor(0) Then
        Rsp$ = SendCommand(":SOUR:TEL:ALAR:RAI 1")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ALAR:RAI?")
        Loop While Val(Rsp$) = 0
        LmpRAIIns.FillColor = QBColor(10)
        LogShow ("RAI : On")
    Else
        Rsp$ = SendCommand(":SOUR:TEL:ALAR:RAI 0")
        Do
            Rsp$ = QuesCommand(":SOUR:TEL:ALAR:RAI?")
        Loop While Val(Rsp$) = 1
        LmpRAIIns.FillColor = QBColor(0)
        LogShow ("RAI : Off")
    End If
    MaskButtons (True)
End Sub
```

## 9.8 Source Program

```
Private Sub Form_Load()
    'initial
    MaskButtons (False)
    Init_frmMain
    'Open RS-232C or GPIB Port
    frmSelectPort.Show 1
    frmMain.Show
    Select Case frmMain.Tag
        Case "RS232C_1"
            Comm1.CommPort = 1
            Open_232C
        Case "RS232C_2"
            Comm1.CommPort = 2
            Open_232C
        Case "RS232C_3"
            Comm1.CommPort = 3
            Open_232C
        Case "GPIB"
            Open_GPIB
    End Select
    'Init_MD6430A
    Init_MD6430A
    LogShow ("Now Start")
    Timer.Interval = 200
    Timer.Enabled = True
    MaskButtons (True)
End Sub

Public Sub Init_frmMain()
    'form clear
    lstLog.Text = Chr(0)
    MObj(1).Value = True
End Sub
```

## SECTION 9 SAMPLE PROGRAM

```
Public Sub Init_MD6430A()
    Dim Rsp$
    LogShow ("Now initialize MD6430A")
    'Set first condition
    Rsp$ = SendCommand("*CLS")
    Rsp$ = SendCommand("*RST")
    Rsp$ = SendCommand(":SYST:MEM:REC 0")
    'set to watch measurement timing
    Rsp$ = SendCommand(":STAT:OPER:INST:PTR 16")  'PTRanstion bit 4 set to 1
    Rsp$ = SendCommand(":STAT:OPER:INST:NTR 0")   'NTRanstion bit 4 set to 0
    Rsp$ = SendCommand(":STAT:OPER:INST:ENAB 16") 'ENABLE bit 4 set
    'set interface, measure/alarm and ErrIns
    Rsp$ = SendCommand(":SOUR:TEL:INT M1_5")
    Rsp$ = SendCommand(":SOUR:TEL:TSL:DBRN 24")
    Rsp$ = SendCommand(":SENS:TEL:INT SLO")
    Rsp$ = SendCommand(":SENS:TEL:TSL:DBRN 24")
    Rsp$ = SendCommand(":SOUR:TEL:ERR:ERAT CYCL")
    Rsp$ = SendCommand(":SOUR:TEL:ERR:ERAT:RATE '1',3")
    Rsp$ = SendCommand(":SENS:MEAS:EAL:TPAT 'PRBS20'")
    Rsp$ = SendCommand(":SENS:MEAS:EAL:TYPE MAN")
    Rsp$ = SendCommand(":SENS:MEAS:EAL:LLIN OFF")
    Rsp$ = SendCommand(":SENS:MEAS:EAL:HLIN OFF")
    'set Err&Alarm monitoring
    Rsp$ = SendCommand(":CALC:MDAT:SET 'RX:ERR'")

    LogShow ("Initialize complete")
End Sub

Private Sub Form_Unload(Cancel As Integer)
    Select Case frmMain.Tag
        Case "RS232C_1"
            Close_232C
        Case "RS232C_2"
            Close_232C
        Case "RS232C_3"
            Close_232C
        Case "GPIB"
            Close_GPIB
    End Select
    End
End Sub

Private Sub mnuExit_Click()
    Unload Me
End Sub
```

## 9.8 Source Program

```
Private Sub MObj_Click(Index As Integer)
    Dim Rsp$
    MaskButtons (False)
    'Select Selfloop or Same Interface that Rx Interface
    MObj(Index).Value = True
    If Index = 0 Then
        Rsp$ = SendCommand(":SENS:TEL:INT SAME")
        Do
            Rsp$ = QuesCommand(":SENS:TEL:INT?")
        Loop While Rsp$ = "SLO"
    Else
        Rsp$ = SendCommand(":SENS:TEL:INT SLO")
        Do
            Rsp$ = QuesCommand(":SENS:TEL:INT?")
        Loop While Rsp$ <> "SLO"
    End If
    MaskButtons (True)
End Sub

Private Sub Timer_Timer()
    Dim Rsp$
    Dim StatusFlag As Integer

    If CmdMeasure.Caption = "Err/Alm stop" Then
        Rsp$ = QuesCommand(":STAT:OPER:INST?")
        StatusFlag = Val(Rsp$) And 16
        If StatusFlag <> 0 Then
            ErrAlmGet
        End If
    End If
    LmpAL
End Sub

Public Sub LogShow(msg$)
    Dim MsgBuf$
    Dim lstcount
    lstLog.AddItem msg$ + " :" + Str(Now)
    lstcount = lstLog.ListCount
    lstLog.TopIndex = lstcount - 1
End Sub
```

## SECTION 9 SAMPLE PROGRAM

```
Sub LmpAL()
    Dim Rsp$
    Dim LmpStat

    'Alarm Lump Status
    Rsp$ = QuesCommand(":STAT:QUES:TEL:MON:SAL5:COND?")
    LmpStat = Val(Rsp$)
    LmpLOS.FillColor = QBColor((LmpStat And 1) * 10) 'LOS
    LmpAIS.FillColor = QBColor((LmpStat And 2) / 2 * 10) 'AIS
    LmpXL.FillColor = QBColor((LmpStat And 4) / 4 * 10) 'XL
    LmpXA.FillColor = QBColor((LmpStat And 8) / 8 * 10) 'XA
    LmpLOF.FillColor = QBColor((LmpStat And 32) / 32 * 10) 'LOF
    LmpRAI.FillColor = QBColor((LmpStat And 256) / 256 * 10) 'RAI

    Rsp$ = QuesCommand(":STAT:QUES:TEL:MON:COMM:COND?")
    LmpStat = Val(Rsp$)
    LmpPSL.FillColor = QBColor((LmpStat And 512) / 512 * 10) 'PSL
End Sub

Public Sub ErrAlmGet()
    Dim Rsp$
    Dim RspLen
    Dim ushiro, mae, count
    Dim itemNo
    count = 1
    mae = 1
    itemNo = 1

    'Get Error Count and Error Rate
    Rsp$ = QuesCommand(":CALC:MDAT? CURR")
    RspLen = Len(Rsp$)
    If Rsp$ <> "" Then
        Do
            buf = Mid(Rsp$, count, 1)
            If buf = "," Then
                ushiro = count
                buf = Mid(Rsp$, mae + 1, ushiro - mae - 1)
                Select Case itemNo
                    Case 11      'Error Count
                        ErrCount.Caption = Mid(buf, 2, 9)
                    Case 12      'Error Rate
                        ErrRate.Caption = Mid(buf, 2, 9)
                End Select
                mae = ushiro
                itemNo = itemNo + 1
            End If
            count = count + 1
        Loop While count < RspLen - 1
    End If
End Sub
```

## 9.8 Source Program

```
Public Sub ErrAlmMstart()
    Dim Rsp$
    Dim dummy

    'Ready for measuring Error/Alarm
    Do
        Rsp$ = QuesCommand(":SENS:MEAS:EAL:STAT?")
        If Rsp$ = "STAR" Then 'Start to Measure Error/Alarm
            CmdMeasure.Caption = "Err/Alm stop"
            LmpErrAlmmeas.FillColor = QBColor(10)
        End If
        dummy = DoEvents()
    Loop While Rsp$ = "PSLW"
    Timer.Interval = 0
    Timer.Interval = 200
End Sub

Public Function MaskButtons(MaskEnable As Boolean)
    Dim MObj_v As Boolean
    cmdErrIns.Enabled = MaskEnable
    cmdRAI.Enabled = MaskEnable
    cmdAIS.Enabled = MaskEnable
    CmdMeasure.Enabled = MaskEnable
    If CmdMeasure.Caption = "Err/Alm start" Then
        MObj_v = MObj(0).Value
        MObj(0).Enabled = MaskEnable
        MObj(1).Enabled = MaskEnable
        MObj(0).Value = MObj_v
    End If
End Function
```

## SECTION 9 SAMPLE PROGRAM

### ● COMMON.bas

```
Function ReceiveResponse() As String
    Dim buf
    If frmMain.Tag <> "GPIB" Then
        ReceiveResponse = IN_232C()
    Else
        ReceiveResponse = IN_GPIB()
    End If
    If ReceiveResponse = "" Then
        buf = "Time Out Occurred."
        MsgBox (buf), vbOKOnly + vbCritical, "Warning"
        If frmMain.Tag <> "GPIB" Then
            Close_232C
        Else
            Close_GPIB
        End If
    End
    End If
End Function

Function SendCommand(Cmd As String) As String
    Dim Rsp$
    Dim dummy

    'Send Set Command and Receive Error Query
    If frmMain.Tag <> "GPIB" Then
        Out_232C (Cmd)
        Out_232C (:SYST:ERR?)
        Rsp$ = ReceiveResponse()
        If Rsp$ <> "0," & Chr$(34) & "No error" & Chr$(34) Then
            frmMain.LogShow (Cmd)
            frmMain.LogShow (Rsp$)
        End If
        SendCommand = SYSTERR(Rsp$) 'Error Code
    Else
        Out_GPIB (Cmd)
    End If
    dummy = DoEvents()
End Function

Public Function SYSTERR(ErrMsg)
    Dim ErrMsgLen As Integer
    For ErrMsgLen = 1 To 5
        If Mid(ErrMsg, ErrMsgLen) = "," Then
            SYSTERR = Val(Mid(ErrMsg, 1, ErrMsgLen - 1))
        End If
    Next ErrMsgLen
End Function
```

## 9.8 Source Program

```
Public Function QuesCommand(Cmd) As String
    Dim dummy

    'Send Query Command and Receive Response Message
    If frmMain.Tag <> "GPIB" Then
        Out_232C (Cmd)
    Else
        Out_GPIB (Cmd)
    End If
    QuesCommand = ReceiveResponse()
    dummy = DoEvents()
End Function
```

## SECTION 9 SAMPLE PROGRAM

### ● RS232C.bas

```
Sub Open_232C()
    If frmMain.Comm1.PortOpen = True Then Exit Sub
    frmMain.Comm1.Settings = "9600,n,8,1" '9600bps, none, 8bit, 1bit
    frmMain.Comm1.Handshaking = comXOnXoff 'flow control
    frmMain.Comm1.PortOpen = True
End Sub

Sub Out_232C(outstr$)
    'Put on the output buffer
    frmMain.Comm1.Output = outstr$ & Chr(10)
End Sub

Function IN_232C() As String
    Dim receive_str$
    Dim timeout&
    Dim i%
    Dim Nowtime

    'Initialize Values
    receive_str$ = ""
    i% = 0

    'Input Response Input Buffer
    Nowtime = Val(Second(Time))
    While i% = 0
        While frmMain.Comm1.InBufferCount <> 0
            receive_str$ = receive_str$ + frmMain.Comm1.Input
            If Err Then Error Err
        Wend
        i% = InStr(receive_str$, Chr$(10)) 'Termination: LF(&H0A)
        timeout& = Val(Second(Time))
        If (timeout& - Nowtime) > 5 Then Exit Function
        If (timeout& - Nowtime) < 0 Then
            If (timeout& + 60 - Nowtime) > 5 Then Exit Function
        End If
    Wend
    IN_232C = Left$(receive_str$, i - 1)
End Function

Sub Close_232C()
    If frmMain.Comm1.PortOpen = False Then Exit Sub
    frmMain.Comm1.PortOpen = False
End Sub
```

● **GPIB.bas**

```

Public gpib0 As Integer
Public Const BordNum = 0
Public Const GAdd = 1

Sub Open_GPIB()
    'Open device for GPIB
    Call ibdev(BordNum, 0, 0, T10s, 1, 0, gpib0%)
    If ibsta% < 0 Then Call Error_Msg
    Call SendIFC(BordNum)
    If ibsta% < 0 Then Call Error_Msg

End Sub

Sub Out_GPIB(outstr$)
    ReDim addr_list%(2)

    'Put on the output buffer
    addr_list%(0) = GAdd
    addr_list%(1) = NOADDR
    Call Send(BordNum, addr_list%(0), outstr$, NLend)
    If ibsta% < 0 Then Call Error_Msg

End Sub

Function IN_GPIB() As String
    Dim receive_str$
    Dim i%
    ReDim addr_list%(2)

    'Initilize Values
    receive_str$ = ""

    'Input Response Input Buffer
    addr_list%(0) = GAdd
    addr_list%(1) = NOADDR
    receive_str$ = Space$(256)
    Call Receive(BordNum, addr_list%(0), receive_str$, STOPend)
    If ibsta% < 0 Then Call Error_Msg

    'CR/LF detect
    i% = InStr(receive_str$, Chr$(13))
    If i% = 0 Then i% = InStr(receive_str$, Chr$(10))
    IN_GPIB = Left$(receive_str$, i% - 1)

End Function

Sub Close_GPIB()
    Call ibonl(BordNum, 0)
End Sub

```

## **SECTION 9 SAMPLE PROGRAM**

```
Sub Error_Msg()
    Dim err_msg$

    err_msg$ = "GPIB error !!" & Chr$(&HA)
    err_msg$ = err_msg$ & "iberr = " & Str$(iberr%)
    MsgBox (err_msg$), vbCritical, "Warning"
    Close_GPIB
End
End Sub
```

## **Appendix**



## Appendix A Command list (SCPI)

This appendix lists the SCPI commands supported by this instrument, grouped by window. Query commands are not stated (they are stated, however, when a corresponding program command does not exist).

See Chapter 6 for more command details, including parameter types and contents.

### A.1 MD6430A screen

Table A.1-1 MD6430A screen command list

Setup item	Command
Setup main screen	:DISPlay:DSELect[:NAME]
	Input/Output sub screen
	Memory sub screen
	System sub screen
	Print sub screen
	Floppy disk sub screen
Measure main screen	Option/Revision sub screen
	Error/Alarm sub screen
	Frame relay sub screen
	Delay sub screen
	Frequency sub screen
	Digital level sub screen
Analyze main screen	Word trace sub screen
	Error/Alarm sub screen
	Trace data sub screen
	Recall sub screen

## Appendix

### A.2 Setup main screen

#### ■ Input/Output sub screen

**Table A.2-1 Input/Output sub screen command list**

Setup Item	Command
Input/Output	:SYSTem:IOUTput[:TYPE]

#### ■ Memory sub screen

**Table A.2-2 Memory sub screen command list**

Setup Item	Command
Measurement condition	:SYSTem:MEMory:RECall :SYSTem:MEMory:STORe :SYSTem:MEMory:RESTore :SYSTem:MEMory:CLEar :SYSTem:MEMory:LABel :SYSTem:MEMory:LABel? :SYSTem:MEMory:INITial
Analyze&Programmable data	:SYSTem:MEMory:ANALysis:RECall :SYSTem:MEMory:ANALysis:CLEar :SYSTem:MEMory:ANALysis:LABel :SYSTem:MEMory:ANALysis:AClear

■ System sub screen

Table A.2-3 System sub screen command list (1/3)

Setup Item		Command
Common/Interface		:DISPlay:SYSTem[:NAME]
Buzzer	Touch key	:SYSTem:BUZZer:TKEY
	Operation error	:SYSTem:BUZZer:OERRor
	Error&Alarm	:SYSTem:BUZZer:EALarm
Date&Time adjust	(Date)	:SYSTem:DATE
	(Time)	:SYSTem:TIME
Remote Interface	RS-232C Function	There are no sequential commands for setting RS-232C/GPIB interface.
	Speed	
	Character length	
	Parity	
	Stop bit	
	Flow control	
	Address	
CODEC	Speaker&Headset Vol.	:SYSTem:CODEc:SVOLume
	Speaker enable	:SYSTem:CODEc:SENable
	PCM Code	:SYSTem:CODEc:PCODE
	Power save	:SYSTem:PSAVe[:SET]
	min	:SYSTem:PSAVe:PERiod
Error count condition	Bit EC with clock slip	:SYSTem:ECOut:BClock
	Bit EC with PSL	:SYSTem:ECOut:BPSL
Frame relay	PVC	:SYSTem:FRElay:PVC
Interface type		:DISPlay:SYSTem:ITYPE
V/X Interface	to DTE/DCE	:SYSTem:INTerface:VXTcmos:DTCE
TTL/CMOS Interface	Term impedance	:SYSTem:INTerface:VXTcmos:TIMPedance
G.703 64k Interface	Type of interface	:SYSTem:INTerface:K64:TINTer

## Appendix

**Table A.2-4 System sub screen command list (2/3)**

Setup Item			Command
I. 430/I.340-a 192k Interface	Test mode		:SYSTem:INTerface:K192:TMode
	Connection		:SYSTem:INTerface:K192:CONnection
	TEI		:SYSTem:INTerface:K192:TEI
	TEI Value		:SYSTem:INTerface:K192:TValue
	Term impedance		:SYSTem:INTerface:K192:TIMPedance
	Power feed threshold		:SYSTem:INTerface:K192:PFEed
	Call loop		:SYSTem:INTerface:K192:CLoop
	ISDN Data	Remote	Number :SYSTem:INTerface:K192:IDATA:RNUMber
			Subaddress :SYSTem:INTerface:K192:IDATA :RSUBaddress
			Channel :SYSTem:INTerface:K192:IDATA:RChannel
		Local	Subaddress :SYSTem:INTerface:K192:IDATA :LSUBaddress
			Channel :SYSTem:INTerface:K192:IDATA:LChannel
	ISDN Voice	Remote	Number :SYSTem:INTerface:K192:IVoice:RNUMber
			Subaddress :SYSTem:INTerface:K192:IVoice :RSUBaddress
			Channel :SYSTem:INTerface:K192:IVoice:RChannel
		Local	Subaddress :SYSTem:INTerface:K192:IVoice :LSUBaddress
			Channel :SYSTem:INTerface:K192:IVoice:LChannel

**Table A.2-5 System sub screen command list (3/3)**

Setup Item				Command	
G.704/I.431 1.544M Interface	Test mode			:SYSTem:INTerface:M1_5:TMODe	
	Call loop			:SYSTem:INTerface:M1_5:CLOop	
	ISDN Data	Remote	Number	:SYSTem:INTerface:M1_5:IDATA:RNUMber	
			Subaddress	:SYSTem:INTerface:M1_5:IDATA :RSUBaddress	
			Channel	:SYSTem:INTerface:M1_5:IDATA :RCHannel	
			H0 Channel	:SYSTem:INTerface:M1_5:IDATA :RHChannel0	
		Local	Subaddress	:SYSTem:INTerface:M1_5:IDATA :LSUBaddress	
			Channel	:SYSTem:INTerface:M1_5:IDATA:LCHannel	
			H0 Channel	:SYSTem:INTerface:M1_5:IDATA :LHChannel0	
	ISDN Voice	Remote	Number	:SYSTem:INTerface:M1_5:IVoice:RNUMber	
			Subaddress	:SYSTem:INTerface:M1_5:IVoice :RSUBaddress	
			Channel	:SYSTem:INTerface:M1_5:IVoice :RCHannel	
		Local	Subaddress	:SYSTem:INTerface:M1_5:IVoice :LSUBaddress	
			Channel	:SYSTem:INTerface:M1_5:IVoice :LCHannel	
G.704/I.431 2.048M Interface	Test mode			:SYSTem:INTerface:M2:TMODe	
	Impedance			:SYSTem:INTerface:M2:IMPedance	
	Call loop			:SYSTem:INTerface:M2:CLOop	
	ISDN Data	Remote	Number	:SYSTem:INTerface:M2:IDATA:RNUMber	
			Subaddress	:SYSTem:INTerface:M2:IDATA :RSUBaddress	
			Channel	:SYSTem:INTerface:M2:IDATA:RCHannel	
			H0 Channel	:SYSTem:INTerface:M2:IDATA :RHChannel0	
		Local	Subaddress	:SYSTem:INTerface:M2:IDATA :LSUBaddress	
			Channel	:SYSTem:INTerface:M2:IDATA:LCHannel	
			H0 Channel	:SYSTem:INTerface:M2:IDATA :LHChannel0	
	ISDN Voice	Remote	Number	:SYSTem:INTerface:M2:IVoice:RNUMber	
			Subaddress	:SYSTem:INTerface:M2:IVoice :RSUBaddress	
			Channel	:SYSTem:INTerface:M2:IVoice:RCHannel	
		Local	Subaddress	:SYSTem:INTerface:M2:IVoice :LSUBaddress	
			Channel	:SYSTem:INTerface:M2:IVoice:LCHannel	

## Appendix

### ■ Print sub screen

**Table A.2-6 Print sub screen command list**

Setup Item		Command
Print OUT		:SYSTem:PRINT:POUT
Intermediate data	Set printing	:SYSTem:PRINT:IDATA[:TYPE]
	Interval printing	:SYSTem:PRINT:IDATA:PERiod
Print Items	Measuring condition	:SYSTem:PRINT:MCondition
	Error occurrence	ON/OFF :SYSTem:PRINT:ERRor:SET
		Unit :SYSTem:PRINT:ERRor:UNIT
		Threshold (Count) :SYSTem:PRINT:ERRor:THreshold:EC
		Threshold (Rate) :SYSTem:PRINT:ERRor:THreshold:ER
	Alarm occurrence	
	Print save	
	Last data	ON/OFF :SYSTem:PRINT:L DATA:SET
		Error :SYSTem:PRINT:ILDCondition:ERRor
		Alarm :SYSTem:PRINT:ILDCondition:ALARm
		Performance :SYSTem:PRINT:ILDCondition:PERformance
		HDLC Frame error :SYSTem:PRINT:ILDCondition:HDLC

### ■ Floppy disk sub screen

**Table A.2-7 Floppy disk sub screen command list**

Setup Item	Command
Load	:SYSTem:MMEMory:RECall
Save	:SYSTem:MMEMory:STORE
Delete	:SYSTem:MMEMory:DElete
Makedir	:SYSTem:MMEMory:MDIRectory
Rename	:SYSTem:MMEMory:REName
Format	:SYSTem:MMEMory:INITialize
FD information query	:SYSTem:MMEMory:CATalog?
Move directory	:SYSTem:MMEMory:CDIRectory
Scroll	:DISPLAY:FDISK:SCROLL

■ Selftest sub screen

Table A.2-8 Selftest sub screen command list

Setup Item	Command
Test mode	:TEST:TMODe
Test Item	:TEST:TITem
Selftest	:TEST:STATE? :TEST:STARt :TEST:STOP
Error code	:TEST:ECODE?
Test Result	:TEST:RESUlt?

## Appendix

### A.3 Interface main screen

**Table A.3-1 Interface main screen command list**

Setup Item	Command
Tx Low-Speed System screen	:DISPlay:INTerface:TX:STATE?
Tx High-Speed System screen	
Rx Low-Speed System screen	:DISPlay:INTerface:RX:STATE?
Rx High-Speed System screen	

#### ■ Interface sub screen (Low-speed systemTx/Rx screen)

**Table A.3-2 Interface sub screen (Low-speed systemTx/Rx screen) command list**

Setup Item		Command
Tx	Interface	:SOURce:TELEcom:INTerface
	Timing	:SOURce:TELEcom:TIMing
	Internal Frag. source	:SOURce:TELEcom:IFSource
	Start/Stop bit	:SOURce:TELEcom:SSBit
	Bit rete	:SOURce:TELEcom:BRATE
	Data length	:SOURce:TELEcom:DLENgth
	Parity	:SOURce:TELEcom:PARity
	Stop bit	:SOURce:TELEcom:STBit
	Byte sync	:SOURce:TELEcom:BSYNC
	Send control	:SOURce:TELEcom:SCONtrol
	Back page	:DISPlay:INTerface:TX:BPAGe
Rx	Next page	:DISPlay:INTerface:TX:NPAGe
	Interface	:SENSe:TELEcom:INTerface
	Timing	:SENSe:TELEcom:TIMing
	Start/Stop bit	:SENSe:TELEcom:SSBit
	Bit rate	:SENSe:TELEcom:BRATE
	Data length	:SENSe:TELEcom:DLENgth
	Parity	:SENSe:TELEcom:PARity
	Byte sync	:SENSe:TELEcom:BSYNC
	Back page	:DISPlay:INTerface:RX:BPAGe
	Next page	:DISPlay:INTerface:RX:NPAGe

■ :Interface sub screen (High-speed systemTx/Rx screen)

**Table A.3-3 Interface sub screen (High-speed systemTx/Rx command) command list (1/2)**

Setup Item		Command
Tx	Interface	:SOURce:TELEcom:INTerface
	Code	:SOURce:TELEcom:CODE
	Frame	:SOURce:TELEcom:FRAME
	Internal Freq. source	:SOURce:TELEcom:IFSource
	8k Byte sync	:SOURce:TELEcom:SKB8
	Time slot	:SOURce:TELEcom:TSLot[:TYPE] :SOURce:TELEcom:TSLot:TSN
	Data channel	:SOURce:TELEcom:TSLot:DCHannel
	Channel	:SOURce:TELEcom:CHANnel
	Data bit rate	:SOURce:TELEcom:TSLot:DBRate :SOURce:TELEcom:TSLot:DBRN
	H0 Channel	:SOURce:TELEcom:TSLot:HChannel0
	Time slot assign	:SOURce:TELEcom:TSLot:TSAssign :SOURce:TELEcom:TSLot:ATSassign :SOURce:TELEcom:TSLot:CTSassign
	Data Frame	:SOURce:TELEcom:DFRame[:TYPE]
	MUX	:SOURce:TELEcom:MUX
	Bit assign	:SOURce:TELEcom:BASSign
	X.50 Data channel	:SOURce:TELEcom:DFRame:XChannel50
	E/Si bit	:SOURce:TELEcom:ESIBit
	Bit steal	:SOURce:TELEcom:BSteaL
	TS16 Frame0 xxxy	:SOURce:TELEcom:TSFRame16
	Sig. bit	:SOURce:TELEcom:SIGBit
	1st bit	:SOURce:TELEcom:BIT1
	8th Bit	:SOURce:TELEcom:BIT8
	Q bit	:SOURce:TELEcom:QBIT
	Sa bit	:SOURce:TELEcom:SABit
	SP bit	:SOURce:TELEcom:SPBit
	ST bit	:SOURce:TELEcom:SBIT
	X.50 Assign	:SOURce:TELEcom:DFRame:XASSign50 :SOURce:TELEcom:DFRame:AXASSign50 :SOURce:TELEcom:DFRame:CXASSign50
	Voice channel	:SOURce:TELEcom:VCHannel1 :SOURce:TELEcom:VCHannel2
	Idle Time slot	:SOURce:TELEcom:ITSslot
	TSn	:SOURce:TELEcom:VTSslot
	Back page	:DISPlay:INTERface:TX:BPAGe
	Next page	:DISPlay:INTERface:TX:NPAGe

## Appendix

**Table A.3-4 Interface sub screen (High-speed systemTx/Rx command) command list (2/2)**

Setup Item		Command
Rx	Interface	:SENSe:TELeCom:INTerface
	Code	:SENSe:TELeCom:CODE
	Frame	:SENSe:TELeCom:FRAMe
	8k Byte sync	:SENSe:TELeCom:SKB8
	Time slot	:SENSe:TELeCom:TSLot[:TYPE]
		:SENSe:TELeCom:TSLot:TSN
	Data channel	:SENSe:TELeCom:TSLot:DCHannel
	Channel	:SENSe:TELeCom:CHANnel
	Data bit rate	:SENSe:TELeCom:TSLot:DBRate
		:SENSe:TELeCom:TSLot:DBRN
	H0 Channel	:SENSe:TELeCom:TSLot:HCHannel0
	Time slot assign	:SENSe:TELeCom:TSLot:TSASsign
		:SENSe:TELeCom:TSLot:ATSassign
		:SENSe:TELeCom:TSLot:CTSassign
	Data frame	:SENSe:TELeCom:DFRame[:TYPE]
	DEMUX	:SENSe:TELeCom:DEMux
	Bit assign	:SENSe:TELeCom:BASSign
	X.50 Data channel	:SENSe:TELeCom:DFRame:XCHannel50
	Bit steal	:SENSe:TELeCom:BStEal
	1st bit	:SENSe:TELeCom:BIT1
	8th bit	:SENSe:TELeCom:BIT8
	X.50 Assign	:SENSe:TELeCom:DFRame:XASSign50
		:SENSe:TELeCom:DFRame:AXASsign50
		:SENSe:TELeCom:DFRame:CXASsign50
	Voice channel	:SENSe:TELeCom:VCHannel1
		:SENSe:TELeCom:VCHannel2
	Input level	:SENSe:TELeCom:ILEVel
	TSn	:SENSe:TELeCom:TSN
	Back page	:DISPlay:INTerface:RX:BPAGe
	Next page	:DISPlay:INTerface:RX:NPAGe

**A.4 Measure main screen**  
■ Error/Alarm sub screen

**Table A.4-1 Error/Alarm sub screen command list**

Setup Item	Command
Cond.1	:DISPlay:EALarm[:NAME]
Cond.2	
Character	
Result	
CAS	
FAS	

## Appendix

### ■ Error/Alarm sub screen (Cond.1)

**Table A.4-2 Error/Alarm sub screen (Cond.1) command list**

Setup Item		Command
Start time		:DISPlay:EALarm:MTIME
FECN Reset		:SENSe:MEASure:ELAPsed?
BECN Reset		:SENSe:MEASure:BRESet
Error Insert	Error type	:SOURce:TELecom:ERRor:TYPE
	Insert rate	:SOURce:TELecom:ERRor:ERATE
		:SOURce:TELecom:ERRor:ERATE:RATE
Test Pattern		:SENSe:MEASure:EALarm:TPATtern :SENSe:MEASure:EALarm:WORD8
PRBS Invert		:SENSe:MEASure:EALarm:PINVert
PSL Threshold		:SENSe:MEASure:EALarm:PTHreshold
Error detect		:SENSe:MEASure:EALarm:EDETect
Block length		:SENSe:MEASure:EALarm:BLENgth
Mode		:SENSe:MEASure:EALarm:TYPE
		:SENSe:MEASure:EALarm:PERiod
Program start		:SENSe:MEASure:EALarm:BTIMe:SET :SENSe:MEASure:EALarm:BTIMe:STARt
Master/Slave		:SENSe:MEASure:EALarm:BTIMe:MSLave
Alarm/Signal Ins.	AIS	:SOURce:TELecom:ALARm:AIS
	SA	:SOURce:TELecom:ALARm:SA
	RAI	:SOURce:TELecom:ALARm:RAI
	XA	:SOURce:TELecom:ALARm:XA
	HG AIS	:SOURce:TELecom:ALARm:HAIS
	BAIS	:SOURce:TELecom:ALARm:BAIS
	ER	:SOURce:TELecom:SIGNal:ER
	RS	:SOURce:TELecom:SIGNal:RS
	LLB	:SOURce:TELecom:SIGNal:LLB
	RLB	:SOURce:TELecom:SIGNal:RLB
	C	:SOURce:TELecom:SIGNal:C
	IFOT	:SOURce:TELecom:SIGNal:IFT0
Octet pattern		:DISPlay:EALarm:ASINs:MORe
Logging line		:SENSe:MEASure:EALarm:OPATtern
Histogram line		:SENSe:MEASure:EALarm:LLINe
Histogram resolution		:SENSe:MEASure:EALarm:HRESolution
HDLC Frame detect		:SENSe:MEASure:EALarm:HFDetect
Frame relay detect		:SENSe:MEASure:EALarm:FRDetect

■ Error/Alarm sub screen (Cond.2)

Table A.4-3 Error/Alarm sub screen (Cond.2) command list

Setup Item		Command	
Start time		:DISPlay:EAAlarm:MTIMe	
Alarm/Signal Ins.	AIS	:SOURce:TELecom:ALARm:AIS	
	SA	:SOURce:TELecom:ALARm:SA	
	RAI	:SOURce:TELecom:ALARm:RAI	
	XA	:SOURce:TELecom:ALARm:XA	
	HG AIS	:SOURce:TELecom:ALARm:HAIS	
	BAIS	:SOURce:TELecom:ALARm:BAIS	
	ER	:SOURce:TELecom:SIGNal:ER	
	RS	:SOURce:TELecom:SIGNal:RS	
	LLB	:SOURce:TELecom:SIGNal:LLB	
	RLB	:SOURce:TELecom:SIGNal:RLB	
	C	:SOURce:TELecom:SIGNal:C	
	IFOT	:SOURce:TELecom:SIGNal:IFT0	
More		:DISPlay:EAAlarm:ASINs:MORE	
Performance		:CALCulate:TELecom:PERFormance:TYPE	
Tx Threshold	ES	ON/OFF	:CALCulate:TELecom:PERFormance:TTHReshold:ES:SET
		S2	:CALCulate:TELecom:PERFormance:TTHReshold:ES:S2
		S2	:CALCulate:TELecom:PERFormance:TTHReshold:ES:S2
	SES	ON/OFF	:CALCulate:TELecom:PERFormance:TTHReshold: :SES:SET
		S1	:CALCulate:TELecom:PERFormance:TTHReshold:SES:S1
		S2	:CALCulate:TELecom:PERFormance:TTHReshold:SES:S2
Rx Threshold	ES	ON/OFF	:CALCulate:TELecom:PERFormance:RTHReshold:ES:SET
		S1	:CALCulate:TELecom:PERFormance:RTHReshold:ES:S1
		S2	:CALCulate:TELecom:PERFormance:RTHReshold:ES:S2
	SES	ON/OFF	:CALCulate:TELecom:PERFormance:RTHReshold: :SES:SET
		S1	:CALCulate:TELecom:PERFormance:RTHReshold:SES:S1
		S2	:CALCulate:TELecom:PERFormance:RTHReshold:SES:S2
	US	ON/OFF	:CALCulate:TELecom:PERFormance:RTHReshold:US:SET
		S1	:CALCulate:TELecom:PERFormance:RTHReshold:US:S1
		S2	:CALCulate:TELecom:PERFormance:RTHReshold:US:S2

## Appendix

### ■ Error/Alarm sub screen (Result)

**Table A.4-4 Error/Alarm sub screen (Result) command list**

Setup Item	Command
Start time	:DISPlay:EALarm:MTIME
Type	:DISPlay:EALarm:RESult[:TYPE]
FECN Reset	:SENSe:MEASure:FRESet
BECN Reset	:SENSe:MEASure:BRESet
Display data	:DISPlay:EALarm:RESult:MODE
Tx Error/Tx Alarm/Rx Error/Rx Alarm	:DISPlay:EALarm:RESult:RDISPLAY
Error performance	:DISPlay:EALarm:RESult:MORE
Alarm performance	
Setup Zoom	:DISPlay:EALarm:RESult:ZOOM
Measurement Result	:CALCulate:DATA?

### ■ Error/Alarm sub screen (Character)

**Table A.4-5 Error/Alarm sub screen (Character) command list**

Setup Item	Command
Print	:SYSTem:PRINT:EALarm:CHARacter:PRINT
All1 (ON/OFF)	:SOURce:TELecom:CHARacter:ALL1
All0 (ON/OFF)	:SOURce:TELecom:CHARacter:ALL0
Store	:SYSTem:MEMory:ANALysis:STORE
Setup Character Pattern	:SOURce:TELecom:CHARacter:DATA :SOURce:TELecom:CHARacter:MDATA
Display start address	
Edit mode	:DISPlay:EALarm:CHARacter:EMODE
Display mode	:DISPlay:EALarm:CHARacter:DMODE
Start address	:SOURce:TELecom:CHARacter:STAddress
Stop address	:SOURce:TELecom:CHARacter:SPAddress
Boundary	:SOURce:TELecom:CHARacter:BOUNdary
Shift	:SOURce:TELecom:CHARacter:SHIFT
Invert	:SOURce:TELecom:CHARacter:INVert
Reverse	:SOURce:TELecom:CHARacter:REVerse
Scroll	:DISPlay:EALarm:CHARacter:SCRoll

■ Error/Alarm sub screen (CAS)

**Table A.4-6 Error/Alarm sub screen (CAS) command list**

Setup Item	Command
Signaling bit sending	:SOURce:TELecon:CAS:SIGBit

■ Error/Alarm sub screen (FAS)

**Table A.4-7 Error/Alarm sub screen (FAS) command list**

Setup Item			Command
DL bit			:SOURce:TELecon:FAS:DLBIt
			:SOURce:TELecon:FAS:DLBIt:PATTern
SSM	SMF1	Sa4	:SOURce:TELecon:FAS:SMF1:SA4
		Sa5	:SOURce:TELecon:FAS:SMF1:SA5
		Sa6	:SOURce:TELecon:FAS:SMF1:SA6
		Sa7	:SOURce:TELecon:FAS:SMF1:SA7
		Sa8	:SOURce:TELecon:FAS:SMF1:SA8
	SMF2	Sa4	:SOURce:TELecon:FAS:SMF2:SA4
		Sa5	:SOURce:TELecon:FAS:SMF2:SA5
		Sa6	:SOURce:TELecon:FAS:SMF2:SA6
		Sa7	:SOURce:TELecon:FAS:SMF2:SA7
		Sa8	:SOURce:TELecon:FAS:SMF2:SA8
Sa bit			:SOURce:TELecon:FAS:SABit

## Appendix

### ■ Frame relay sub screen

**Table A.4-8 Frame relay sub screen command list**

Setup Item	Command
Start time	:DISPlay:FRELay:MTIMe
FECN Reset	:SENSe:MEASure:FRESet
BECN Reset	:SENSe:MEASure:BRESet
DLCI	:SOURce:TELeCom:FRELay:DLCI
Interval time	:SOURce:TELeCom:FRELay:ITIMe
Alarm/Signal Ins.	AIS SA RAI XA ER RS LLB RLB C IFOT More
Measurement result	:CALCulate:DATA?

### ■ Delay sub screen

**Table A.4-9 Delay sub screen command list**

Setup Item	Command
Type	:SENSe:MEASure:DELay:TYPE
Interval	:SENSe:MEASure:DELay:INTerval
Start trigger	:SENSe:MEASure:DELay:STTRigger
Stop trigger	:SENSe:MEASure:DELay:SPTRigger
Alarm/Signal Ins.	AIS SA RAI XA ER RS LLB RLB C IFOT More
Measurement result	:CALCulate:DATA?

■ Frequency sub screen

Table A.4-10 Frequency sub screen command list

Setup Item	Command
Line	:SENSe:MEASure:FREQuency:LINE
Gate time	:SENSe:MEASure:FREQuency:GTIMe
Interval	:SENSe:MEASure:FREQuency:INTerval
Alarm/Signal Ins.	AIS
	SA
	RAI
	XA
	ER
	RS
	LLB
	RLB
	C
	IFOT
More	:DISPlay:FREQuency:ASINs:MORE
Measurement result	:CALCulate:DATA?

■ Digital level sub screen

Table A.4-11 Digital level sub screen command list

Setup Item	Command
Line select	:SENSe:MEASure:DLEVel:LSElect
PCM Code	:SENSe:MEASure:DLEVel:PCODE
Alarm/Signal Ins.	AIS
	SA
	RAI
	XA
	ER
	RS
	LLB
	RLB
	C
	IFOT
More	:DISPlay:DLEVel:ASINs:MORE
Measurement result	:CALCulate:DATA?

## Appendix

### ■ Word trace sub screen

**Table A.4-12 Word trace sub screen command list**

Setup Item		Command
Word trace	Condition	:DISPlay:WTRace[:NAME]
	PRGM Data	

### ■ Word trace sub screen (Condition)

**Table A.4-13 Word trace sub screen (Condition) command list**

Setup Item		Command
Idle code		:SOURce:TELecom:WTRace:ICODE
Send data		:SOURce:TELecom:WTRace:SDATA
Send method		:SOURce:TELecom:WTRace:SMETHOD
Trace Line		:SENSe:MEASure:WTRace:TLINe
Start trigger		:SENSe:MEASure:WTRace:STTRigger
	Pattern	:SENSe:MEASure:WTRace:STPattern
Stop trigger		:SENSe:MEASure:WTRace:SPTTrigger
	Pattern	:SENSe:MEASure:WTRace:SPPattern
	Trace byte	:SENSe:MEASure:WTRace:TBYTe
Stop delay		:SENSe:MEASure:WTRace:SDELay
Alarm/Signal Ins.	AIS	:SOURce:TELecom:ALARm:AIS
	SA	:SOURce:TELecom:ALARm:SA
	RAI	:SOURce:TELecom:ALARm:RAI
	XA	:SOURce:TELecom:ALARm:XA
	ER	:SOURce:TELecom:SIGNAl:ER
	RS	:SOURce:TELecom:SIGNAl:RS
	LLB	:SOURce:TELecom:SIGNAl:LLB
	RLB	:SOURce:TELecom:SIGNAl:RLB
	C	:SOURce:TELecom:SIGNAl:C
	IFOT	:SOURce:TELecom:SIGNAl:IFT0
	More	:DISPlay:WTRace:ASINs:MORE

■ Word trace sub screen (PRGM data)

Table A.4-14 Word trace sub screen (PRGM data) command list

Setup Item	Command
Print	:SYSTem:PRINT:WTRace:PDATa:PRINT
A111	:SOURce:TELecom:WTRace:ALL1
A110	:SOURce:TELecom:WTRace:ALL0
Trace data->	:SOURce:TELecom:WTRace:TDAta
Store	:SYSTem:MEMORY:ANALysis:STORE
Display start address	:DISPlay:WTRace:PRGMdata:ADDRess
Edit mode	:DISPlay:WTRace:PRGMdata:EMODe
Display mode	:DISPlay:WTRace:PRGMdata:DMODE
Start address	:SOURce:TELecom:WTRace:STADdress
Stop address	:SOURce:TELecom:WTRace:SPADdress
Boundary	:SOURce:TELecom:WTRace:BOUNdary
Shift	:SOURce:TELecom:WTRace:SHIFt
Invert	:SOURce:TELecom:WTRace:INVert
Revese	:SOURce:TELecom:WTRace:REVerse
Word pattern	:SOURce:TELecom:WTRace:DATA :SOURce:TELecom:WTRace:MDATA
Scroll	:DISPlay:WTRace:PRGMdata:SCRoll
Measurement result	:CALCulate:DATA?

## Appendix

### A.5 Analyze main screen

#### ■ Error/Alarmsub screen

Table A.5-1 Error/Alarm sub screen command list

Setup Item	Command
Logging/Histogram	:DISPlay:ANALysis[:NAME]
Logging	Print :SYSTem:PRINT:ANALyze:EALogging:PRINT
	Data :CALCulate:ANALysis:EALogging:DATA?
Histogram	Print :SYSTem:PRINT:ANALyze:EAHistogram :PRINT
	Data :CALCulate:ANALysis:EAHistogram:DATA?
Alarm1	:DISPlay:ANALysis:EAHistogram:ALARm1
Alarm2	:DISPlay:ANALysis:EAHistogram:ALARm2
Alarm3	:DISPlay:ANALysis:EAHistogram:ALARm3
Count/Rate	:DISPlay:ANALysis:EAHistogram:UNIT
Store	:SYSTem:MEMory:ANALysis:STORE
Marker	:DISPlay:ANALysis:EAHistogram:MDISplay
Serch	:DISPlay:ANALysis:EAHistogram:SEARch
Start time/day	:DISPlay:ANALysis:EAHistogram:GSTime
Interval	:DISPlay:ANALysis:EAHistogram:INTerval
Scroll	:DISPlay:ANALysis:EAHistogram:SCRoll

#### ■ Trace data sub screen

Table A.5-2 Trace data sub screen command list

Setup Item	Command
Print	:SYSTem:PRINT:ANALyze:TDAData:PRINT
Store	:SYSTem:MEMory:ANALysis:STORE
Display start address	:DISPlay:ANALysis:TDAData:ADDRess
Display mode1	:DISPlay:ANALysis:TDAData:DMode1
Display mode2	:DISPlay:ANALysis:TDAData:DMode2
Boundary	:DISPlay:ANALysis:TDAData:BOUNdary
Invert	:DISPlay:ANALysis:TDAData:INVert
Reverse	:DISPlay:ANALysis:TDAData:REVerse
Shift	:DISPlay:ANALysis:TDAData:SHIFT
Trigger Serch	:DISPlay:ANALysis:TDAData:TSEarch
Stop Serch	:DISPlay:ANALysis:TDAData:SSEarch
Scroll	:DISPlay:ANALysis:TDAData:SCRoll
Trace Data	:CALCulate:ANALysis:TDAData:DATA?
Trace byte count	:CALCulate:ANALysis:TDAData:NUMBER?
Stop trigger count	:CALCulate:ANALysis:TDAData:STRigger?

■ Protocol monitor sub screen

**Table A.5-3 Protocol monitor sub screen command list**

Setup Item	Command
Print	:SYSTem:PRINT:ANALyze:PMONitor:PRINT
Store	:SYSTem:MEMOry:ANALysis:STORe
Scroll	:DISPlay:ANALysis:PMONitor:SCRoll
Protocol monitor data	:CALCulate:ANALysis:PMONitor:DATA?

■ Recall sub screen

**Table A.5-4 Recall sub screen command list**

Setup Item	Command
Name	:DISPlay:ANALysis:RECall:NAME?

■ Recall sub screen (Error/Alarm)

**Table A.5-5 Recall sub screen (Error/Alarm) command list**

Setup Item			Command
Error/Alarm	Logging	Print	:SYSTem:PRINT:ANALyze:RECall:EALogging :PRINT
		Data	:CALCulate:ANALysis:RECall:EALogging:DATA?
	Histogram	Print	:SYSTem:PRINT:ANALyze:RECall:EAHistogram :PRINT
		Data	:CALCulate:ANALysis:RECall:EAHistogram :DATA?
Trace data	Print		:SYSTem:PRINT:ANALyze:RECall:TDAData:PRINT
Alarm1			
Alarm2			
Alarm3			
Count/Rate			
Marker			
Serch			
Start time/day			
Interval			
Scroll			

## Appendix

### ■ Recall sub screen (Trace data)

**Table A.5-6 Recall sub screen (Trace data) command list**

Setup Item	Command
Print	:SYSTem:PRINT:ANALyze:RECall:TDAData :PRINT
Display start address	:DISPlay:ANALysis:RECall:TDAData:ADDReSS
Display mode1	:DISPlay:ANALysis:RECall:TDAData:DMode1
Display mode2	:DISPlay:ANALysis:RECall:TDAData:DMode2
Boundary	:DISPlay:ANALysis:RECall:TDAData :BOUNdary
Invert	:DISPlay:ANALysis:RECall:TDAData:INVert
Reverse	:DISPlay:ANALysis:RECall:TDAData:REVerse
Shift	:DISPlay:ANALysis:RECall:TDAData:SHIFT
Trigger Search	:DISPlay:ANALysis:RECall:TDAData:TSEarch
Stop Search	:DISPlay:ANALysis:RECall:TDAData:SSEarch
Scroll	:DISPlay:ANALysis:RECall:TDAData:SCRoll
Trace Data	:CALCulate:ANALysis:RECall:TDAData:DATA?
Trace byte count	:CALCulate:ANALysis:RECall:TDAData :NUMBER?
Stop trigger count	:CALCulate:ANALysis:RECall:TDAData :STRigger?

### ■ Recall sub screen (Protocol monitor)

**Table A.5-7 Recall sub screen (Protocol monitor) command list**

Setup Item	Command
Print	:SYSTem:PRINT:ANALyze:RECall:PMONitor :PRINT
Scroll	:DISPlay:ANALysis:RECall:PMONitor:SCRoll
Protocol monitor data	:CALCulate:ANALysis:RECall:PMONitor :DATA?

## A.6 Front panel/the others

**Table A.6-1 Front panel/other command list (1/2)**

Setup Item	Command
Print Now key	:SYSTem:PRINT:COPY:STARt :SYSTem:PRINT:COPY:STOP :SYSTem:PRINT:COPY:STATE?
ISDN data	:SYSTem:DCONNECT:ISTart :SYSTem:DCONNECT:STOP :SYSTem:DCONNECT:STATE?
ISDN voice	:SYSTem:VCONNECT:ISTart :SYSTem:VCONNECT:PStart :SYSTem:VCONNECT:STOP :SYSTem:VCONNECT:STATE?
Error state	:SYSTem:ERRor?
SCPI version	:SYSTem:VERSion?
Battery	:SYSTem:BATTery
Word Trace measurement	:SOURce:TELEcom:WTRace:STARt :SOURce:TELEcom:WTRace:STOP :SOURce:TELEcom:WTRace:STATE?
Error/Alarm measurement	:SENSe:MEASure:BRESet :SENSe:MEASure:EALarm:STOP :SENSe:MEASure:EALarm:STATE?
Frame relay measurement	:SENSe:MEASure:FRELay:STARt :SENSe:MEASure:FRELay:STOP :SENSe:MEASure:FRELay:STATE?
Delay measurement	:SENSe:MEASure:DELay:STARt :SENSe:MEASure:DELay:STOP :SENSe:MEASure:DELay:STATE?
Frequency measurement	:SENSe:MEASure:FREQuency:STARt :SENSe:MEASure:FREQuency:STOP :SENSe:MEASure:FREQuency:STATE?
Digital level measurement	:SENSe:MEASure:DLEVel:STARt :SENSe:MEASure:DLEVel:STOP :SENSe:MEASure:DLEVel:STATE?
Word Trace measurement	:SENSe:MEASure:WTRace:STARt :SENSe:MEASure:WTRace:STOP :SENSe:MEASure:WTRace:STATE?
Protocol monitor	:SENSe:MEASure:PMONitor:STARt :SENSe:MEASure:PMONitor:STOP :SENSe:MEASure:PMONitor:STATE?

## Appendix

**Table A.6-2 Front panel/other command list (2/2)**

Setup Item	Command
Signal-line/Alarm monitor	:DISPlay:MONitor:SELect
	:DISPlay:MONitor:HISTory
Screen OFF	:DISPlay:SCRoff:STARt
	:DISPlay:SCRoff:STOP
	:DISPlay:SCRoff:STATE?
Measurement start time	:SENSe:MEASure:STIMe?
Measurement elapsed time	:SENSe:MEASure:ELAPsed?